

**19 February 2010**

**4<sup>th</sup> Quarter Groundwater Monitoring Report  
Former CENCO Refinery  
12345 Lakeland Road, Santa Fe Springs, CA**

**SLIC No. 0318, ID No. 2040071  
CAO 97-118**

Prepared on Behalf of

**Isola Law Group, LLP  
Lodi, California**

Prepared for

**Regional Water Quality Control Board  
Los Angeles Region**

Prepared By

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The logo for MUREX environmental, inc. features a stylized white hand icon on the left, followed by the word "MUREX" in a bold, white, serif font inside a dark red rectangular box. Below this box, the words "environmental, inc" are written in a smaller, white, sans-serif font.

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## 1. INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Fourth Quarter 2009 Groundwater Monitoring Report* for CENCO Refining Company for its former refinery located at 12345 Lakeland Road in Santa Fe Springs, California (site; Figure 1).

### 1.1 Purpose

The objective of the monitoring is to evaluate groundwater quality beneath the site and adjacent properties (Figure 2). This report presents the groundwater monitoring activities performed between December 12 and 18, 2009, in accordance with California Regional Water Quality Control Board, Los Angeles Region (RWQCB) Cleanup and Abatement Order (CAO) No. 97-118.

### 1.2 Site Description and History

The site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (Figure 2). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil-production-related structures such as ponds and aboveground holding tanks may have also been located onsite during these years (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to two CAOs (Nos. 85-17 and 97-118) issued by

the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1985 and 1997 (Haley & Aldrich, 2005).

## 2. GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The last monitoring event was performed by ARCADIS in August 2009. The following subsections summarize the work completed during the fourth quarter 2009 monitoring event.

### 2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes 44 wells as listed in Table 1 and shown on Figure 2. These wells include:

- Sixteen onsite groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Sixteen downgradient offsite groundwater monitoring wells of which:
  - Three located on the former Lakeland property that include: MW-501A, MW-502, and MW-503B; and
  - Thirteen located on the Hospital property that include: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven offsite groundwater monitoring wells located to the southeast on the Walker property including: W-1, W-3A, W-4, W-16A, W-16B, W-16C, and EW-1;
- Three offsite groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two onsite deep former water production wells identified as W-7 and W-8.

## 2.2 Groundwater Gauging

Murex attempted to gauge all 44 wells on December 12, 2009, however four (4) wells were not accessible. Out of the 40 remaining wells, 15 were dry and three contained free-phase petroleum hydrocarbon (FPPH) product as follows:

- Wells containing groundwater water: MW-104A, MW-106A, MW-107A, MW-203, MW-503B, W-1, W-10, W-12, W-14A, W-14B, W-14C, W-15A, W-15B, W-15C, W-16A, W-16B, W-16C, W-17A, W-17B, W-17C, W-4, W-8;
- Dry wells: MW-101, MW-103, MW-201, MW-202, MW-204, MW-205, MW-501A, MW-502, MW-504, MW-600A, MW-603, MW-604, MW-605, MW-606, and MW-607;
- Wells with FPPH: EW-1, W-11 and W-3A; and
- Inaccessible wells: MW-601A (buried), W-9, MW-105, and W-7 (inaccessible at time of gauging).

Table 2 summarizes the groundwater elevation measurements.

## 2.3 Groundwater Purging

The 23 monitoring wells that contained groundwater were purged via a vacuum stinger with the exception of wells with FPPH and the production well W-8. During purging, extracted groundwater volume and quality were monitored in the field for flow rate, temperature, pH, turbidity, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in Table 6.

## 2.4 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected from the 22 wells and transported under chain-of-custody manifests to Sunstar Laboratories, Inc. (Sunstar Lab) of Lake Forest, California. Sample identification name and Analytical methods were indicated on the Chain-of-Custody manifest corresponding to each collected sample. The requested laboratory analysis included the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (USEPA) Method 8015M;
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B; and
- Hexavalent chromium by USEPA Method 7199.

The results of the analytical testing are shown in Table 3 (TPHg), Table 4 (VOCs), and Table 5 (hexavalent chromium).

To evaluate potential evidence of biological degradation of petroleum hydrocarbons in groundwater, groundwater samples from four wells (MW-104A, MW-205, MW-606, and MW-503B) are additionally analyzed for biodegradation parameters. However, two wells were dry (MW-205 and MW-606). As a result, only samples from wells MW-104A and MW-503B were sent to Sunstar Lab for the following analysis:

- Methane by USEPA Method RSK-175;
- Nitrate and sulfate by USEPA Method 300.0;
- Alkalinity by Standard Method (SM) 2320B; and
- Ferrous iron (Fe<sup>2+</sup>) by SM 3500-Fe D.

All samples were transported to SunStar Laboratories under proper chain-of-custody procedures.

The results of the biological parameter testing are summarized in Table 6.

## **2.5 Quality Assurance/Quality Control**

As per the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and/or submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

#### **2.5.1 Trip Blanks**

Trip blanks (provided by SunStar Laboratories) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were not analyzed for VOCs and TPHg due to operator error.

#### **2.5.2 Duplicates**

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells W-4 and W-10. This represents a duplicate frequency of approximately 10% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as the primary samples.

#### **2.5.3 Equipment Blanks**

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

### 3. RESULTS & DISCUSSION

This section presents and discusses the results of the fourth quarter 2009 groundwater monitoring event. Well completion data (as adapted from Dan Herlihy Environmental Services, 2006) are provided in Table 1. The groundwater level measurements, depths to water and FPPH, and groundwater elevations are presented in Table 2. Analytical results are compiled in Tables 3 through 6.

Appendix A provides copies of the well measurement and groundwater sampling forms. Laboratory reports and completed COCs are reproduced in Appendix B. Finally, Appendix C contains historical data tables. Murex will combine new data with historical data, and present graphs of concentrations over time to the RWQCB in future submittals, once electronic files from previous consultants become available.

The presentation of the results in this report does not distinguish between site- and non-site-related constituents, although there are indications of non-site-related contaminants in groundwater.

#### 3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (Tables 1 and 2). Groundwater elevations were adjusted for wells with FPPH, which was assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, and a gradient direction and slope are shown on Figure 3.

Based on the groundwater level measurements obtained on December 12, 2009, first-encountered groundwater beneath the site vicinity ranges in elevation from 25.39 to 49.36 feet above mean sea level. Groundwater elevations have dropped by an average of approximately 4.07 feet since January 2009 (ARCADIS, 2009), compared to a decrease of approximately 3.6 feet between February 2008 and January 2009.

The average horizontal groundwater gradient is approximately 0.0083 foot per foot (ft/ft), as shown in Figure 3. The groundwater flow direction during this monitoring event is to the south-southwest. These flow directions are relatively consistent with those historically reported in previous investigations.

The significant drop in groundwater elevation documented over the last 10 years (approximately 25-30 feet) has caused many of the groundwater monitoring wells to be dry. Regionally, groundwater elevations have decreased as a result of California's drought, however, the drop in levels locally may also be influenced by municipal groundwater pumping operations.

### **3.2 Free-Phase Petroleum Hydrocarbons**

Measurable FPPH, which is also known as light non-aqueous-phase liquid, or LNAPL, was detected in wells EW-1, W-3A, and W-11 (Table 2). FPPH in Well EW-1 was measured at 0.6 foot, in Well W-3A was measured at 1.2 foot, and in Well W-11 was measured at 0.58 foot. In previous monitoring events, FPPH was detected in monitoring wells EW-1, W-3A, W-11, as well as MW-502 and MW-504, although these wells were dry during this event.

### **3.3 Groundwater Analysis**

Analytical results are summarized in Tables 3 through 6, and laboratory reports and completed COCs are included in Appendix C.

#### **3.3.1 Total Petroleum Hydrocarbons as Gasoline**

The Fourth Quarter 2009 TPHg results are presented in Table 3 and Figure 4. TPHg was detected in 18 of the 22 wells sampled at concentrations ranging from 50 micrograms per liter ( $\mu\text{g/L}$ ) in monitoring well W-7 to 9,800  $\mu\text{g/L}$  in monitoring well W-10. Compared to the Third Quarter of 2009, TPHg concentrations decreased in 9, increased in 8, and remained the same in 4 wells, which is considered to be relatively stable.

Groundwater sampled from monitoring well MW-203 exhibited the largest absolute increase in TPHg concentrations from 120  $\mu\text{g/L}$  to 1800  $\mu\text{g/L}$  compared to the August 2009

monitoring event. The largest absolute decrease in TPHg concentration was observed in monitoring well W-10, where the concentration dropped from 14,000 to 9,800 µg/L since July 2009.

### **3.3.2 VOCs and Oxygenates**

A summary of VOC and oxygenate analytical results for the Fourth Quarter 2009 is presented in Table 4. Historical data from previous monitoring events is contained in Appendix C. Murex will combine new data with historical data, and present graphs of concentrations over time to the RWQCB in future submittals, once electronic files from previous consultants become available.

#### **3.3.2.1 Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)**

Benzene was present in samples collected from 12 wells at concentrations ranging from 0.51 µg/L in well W-8 to 7,100 µg/L in the sample from well W-10 (Figure 5). Samples from 10 wells contained benzene at concentrations greater than the California Maximum Contaminant Level (MCL) in drinking water of 1 µg/L. Benzene concentrations in the Fourth Quarter of 2009 are similar to concentrations from previous 2009 monitoring events.

Of the other BTEX compounds analyzed, toluene was detected in samples from 6 wells at concentrations ranging from 0.53 µg/L in W-15-B to 170 µg/L in the sample from W-10. Only the duplicate sample from W-10 exceeded the MCL of 150 µg/L. Ethylbenzene was detected in samples from 5 wells at concentrations ranging from 3.8 µg/L in W-12 to 150 µg/L in W-10. Ethylbenzene was not detected above its California MCL (300 µg/L) in the sampled wells. Total xylenes, including the *ortho*, *meta*, and *para* isomers, were detected in samples from 6 wells at concentrations ranging from 1.1 µg/L in W-17A to 242 µg/L in W-10. All xylene detections were less than the California MCL of 1,750 µg/L.

#### **3.3.2.2 Methyl tert-butyl Ether (MTBE)**

The oxygenate MTBE was detected in samples from 3 wells at concentrations ranging from 3.6 µg/L in MW-503B to 78 µg/L in W-15A (Figure 5). The 13 µg/L California MCL for MTBE in drinking water was exceeded in wells W-15A and W-15B.

### 3.3.2.3 *Tert-Butyl Alcohol (TBA)*

TBA, another oxygenate and a byproduct of MTBE breakdown, was detected in samples from 3 wells at a maximum concentration of 190 µg/L in W-15A.

### 3.3.2.4 *Other VOCs*

In addition to the aforementioned compounds, 22 additional VOCs were detected in groundwater during this sampling event. The constituents are as follows, with the frequency of detection (number of wells) shown in parentheses.

<i>cis</i> -1,2-dichloroethene ( <i>c</i> -1,2-DCE) (12)	naphthalene (6)
isopropylbenzene (10)	<i>tert</i> -butylbenzene (4)
<i>trans</i> -1,2-dichloroethene ( <i>t</i> -1,2-DCE) (7)	1,2,4-trimethylbenzene (2)
1,1-dichloroethane (1,1-DCA) (4)	1,3,5-trimethylbenzene (3)
<i>n</i> -propylbenzene (9)	<i>n</i> -butylbenzene (5)
<i>sec</i> -butylbenzene (7)	<i>p</i> -isopropyltoluene (1)
vinyl chloride (6)	tetrachloroethene (PCE) (1)
trichloroethene (TCE) (3)	chlorobenzene (1)
1,2-dichloroethane (1,2-DCA) (1)	chloromethane (1)
1,1-dichloroethene (1,1-DCE) (3)	chloroform (1)
1,2-dichlorobenzene (1)	1,2-dichloropropane (2)

As in the previous monitoring event, PCE and TCE were detected at concentrations exceeding the 5 µg/L California MCL in samples from wells MW-107A, W-10, W-14B and W-14C. The highest PCE concentration of 140 ug/L was detected in Well W-10.

### 3.3.3 **Hexavalent Chromium**

Hexavalent chromium was not detected in the samples from the sampled monitoring wells, nor has it been in recent years.

### 3.3.4 Distribution of Constituents

#### 3.3.4.1 *Potential Offsite Sources of VOCs*

Groundwater collected from the monitoring wells along Florence Ave, located upgradient at the northern boundary of the site, contained chlorinated hydrocarbons. The detection of these contaminants in this upgradient wells and other off-site wells to the East suggests the presence of offsite, upgradient source(s). In addition, previous monitoring events resulted in the detection of chlorinated hydrocarbons in samples from wells located on the west side of the site (i.e. MW-105) and the west side of the Hospital property (i.e. MW-603 and W-14B).

#### 3.3.4.2 *TPHg and VOCs*

The highest concentrations of TPHg detected during this sampling event were in the north-central and southwestern portions of the site, extending southeast toward the northern part of the Hospital property (Figures 4 and 5). TPHg was detected at a concentration of 9,800 µg/L in the sample from monitoring well W-10, located in the north-central part of the site. TPHg was detected at the former Lakeland property at a concentration of 4,000 µg/L in the sample from monitoring well MW-503B.

In two of the aforementioned wells, the highest benzene concentrations were also detected: 7,100 µg/L in W-10 and 160 µg/L in MW-503B (Figure 5). Well W-10 also had the highest concentrations of ethylbenzene (150 µg/L), naphthalene (130 µg/L), 1,2,4-trimethylbenzene (85 µg/L), 1,3,5-trimethylbenzene (18 µg/L), and total xylenes (242 µg/L). The highest MTBE concentrations were observed in wells W-15A and W-15B at 78 and 23 µg/L, respectively.

Wells exhibiting FPPH product were not sampled, however, likely exhibit concentrations in excess of 10% of the aqueous solubility of the petroleum mixture. The solubility of various gasoline-range hydrocarbons can span from 36 mg/L (C5-C6) down to 5.4 mg/L (C6-C8) (Gustafson, 1996). Assuming a mean solubility of 10 mg/L, the concentrations of TPHg in wells exhibiting FPPH likely exceed 1 mg/L, or 1,000 µg/L.

The footprint of impacted groundwater emanating from the southwestern corner of the site has not changed shape or size substantially since the last groundwater monitoring event in August 2009.

### **3.3.5 Biodegradation Parameters**

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe<sup>3+</sup>)-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for the microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe<sup>3+</sup>, sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When the dissolved oxygen (DO) concentration fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe<sup>3+</sup> reduction will begin if Fe<sup>3+</sup> is present. Fe<sup>3+</sup> concentrations will decrease, while Fe<sup>2+</sup> concentrations will increase. After most Fe<sup>3+</sup> is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

#### **3.3.5.1 Field Measured Parameters**

pH, DO, and oxidation-reduction potential (ORP) data were collected from 24 monitoring wells using a Horiba U-22 water quality meter (Table 6). The meter was inserted into grab water samples, collected from the vacuum truck intake throughout the purging process.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 6.92 to 10.11, indicating a neutral to alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.

- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration.

DO concentrations ranged from 5.3 to 9.4 mg/L, reflecting an aerobic environment. It is important to note that the vacuum stinger method used to purge the wells introduce oxygen into the water. Therefore, DO data is not representative of the actual oxygen content.

- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Anaerobic biodegradation has a tendency to create reducing conditions, resulting in negative ORP readings.

The most negative ORP values were observed in samples from monitoring wells MW-107A (-276 mV), W-8 (-230 mV), W-16B (-184 mV), W-16C (-206 mV), W-17B (-173 mV), W-17C (-142 mV), W-16B (-154 mV), and W-10 (-147 mV). A hydrogen sulfide odor (produced from the reduction of sulfate in groundwater) was detected during purging of wells MW-107A, W-16B, W-16C, and W-17C, providing additional evidence that anaerobic conditions are present. The most highly positive ORP values were observed in samples from monitoring wells W-14B (97 mV), W-14C (77 mV), W-15A (85 mV), and MW-203 (61 mV). As with DO measurements, ORP measurements can be affected by disturbance and exposure to the atmosphere during sample collection, however are more stable than DO readings and likely reflect actual conditions.

#### **3.3.5.2 Laboratory Measured Parameters**

Groundwater samples from four wells MW-104A and MW-503B were analyzed by SunStar Laboratories for methane, nitrate, sulfate, total alkalinity, and Fe<sup>2+</sup>. Two wells, MW-205 and MW-606 wells were also included for the evaluation of biodegradation potential based on their location, however, no samples were collected from them because they were dry.

- **Total Alkalinity** – Total alkalinity results from the presence of hydroxides, carbonates, and bicarbonates. Aerobic biodegradation in groundwater may result in increased alkalinity due to the evolution of carbon dioxide.

Results were similar to those observed in previous monitoring events in 2009. The highest alkalinity concentration (790 mg/L) was observed in the sample from monitoring well MW-104A (same value as in the July 2009 sampling). MW-503B has a total alkalinity of 530 mg/L (lower than the 750 mg/L value in July 2009). The relatively high alkalinity observed in these wells indicates that the local environment is conducive to methanogenesis and that prior to methanogenesis, aerobic degradation may have occurred. When TPHg is degraded aerobically, carbon dioxide is released into the aqueous environment in the form of carbonates or bicarbonates, raising the alkalinity.

- **Nitrate** – Nitrate may be used as an electron acceptor in anoxic environments where the DO has been depleted. During this biodegradation process, nitrate loses an oxygen atom and is reduced to nitrite in part of a process called denitrification. Decreased concentrations of nitrate in wells containing higher concentrations of hydrocarbons generally indicate the occurrence of denitrification.

Nitrate was detected in the sample collected from only well (MW-104A) at a concentration of 0.79 mg/L. Geochemical conditions in localized groundwater may be suitable for denitrification.

- **Ferrous Iron** –  $\text{Fe}^{3+}$  may be used as an electron acceptor during anaerobic degradation of petroleum hydrocarbons when it is reduced to  $\text{Fe}^{2+}$ .  $\text{Fe}^{2+}$  was observed in sample from monitoring well MW-503B at a concentration of 0.361 mg/L.  $\text{Fe}^{3+}$  reduction may be occurring in localized groundwater.
- **Sulfate** – Sulfate may also be used as an electron acceptor for anaerobic biodegradation once DO and nitrate are (nearly) exhausted. A drop in sulfate concentrations in wells with high concentrations of petroleum hydrocarbons indicates the occurrence of anaerobic biodegradation.

Sulfate was detected in samples from both wells at concentrations of 97.2 mg/L in MW-104A and 274 mg/L in MW-503B.

- **Methane** – Dissolved methane is a byproduct of methanogenic reducing activity, which is indicative of anaerobic biodegradation. Methane is typically produced once the electron acceptors oxygen, sulfate, and nitrate have been completely utilized. Therefore, as methane concentrations increase, DO, sulfate, and nitrate concentrations typically decrease.

Methane was detected in both monitoring wells at concentrations of 1.040 mg/L in the sample collected from MW-104A and 12.20 mg/L in the sample collected from MW-503B. The presence of methane in these wells indicates that methanogenesis may be occurring.

### **3.3.6 Quality Assurance/Quality Control (QA/QC)**

Duplicate sample results are provided alongside their parent sample results in Tables 3 through 5. The results show similar concentrations of analytes as in their respective primary samples, as would be expected for an ELAP-certified laboratory.

## 4. SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former CENCO refinery in December 2009 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 44 wells and collecting samples from 23 of those wells for analysis of TPHg, VOCs, and hexavalent chromium. Two of the wells were also sampled for analysis of biodegradation parameters including methane, nitrate, sulfate, total alkalinity, Fe<sup>2+</sup>, pH, DO, and ORP.

### 4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.00825 ft/ft was calculated for the Fourth Quarter groundwater monitoring event. This is consistent with historical gradient data for the site. Overall, groundwater levels have dropped by an average of 4.07 feet since January 2009. Groundwater flows south-southwesterly near the site and historically groundwater flow direction takes a more southerly route beneath the Hospital property.

The significant drop in groundwater elevation documented over the last 10 years (approximately 25-30 feet) has caused many of the groundwater monitoring wells to be dry. Regionally, groundwater elevations have decreased as a result of California's drought, however, the drop in levels locally may also be influenced by municipal groundwater pumping operations.

### 4.2 Free-Phase Petroleum Hydrocarbons

The number of wells in which FPPH was observed decreased from six in June 2004, to four in October 2005, to two in February 2006, to one in November 2007 (MW-600A) and in February 2008 (W-11). However, FPPH has been observed in three wells during the Fourth Quarter monitoring event. The thicknesses (0.58 to 1.2 feet) detected within these wells does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations

in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

### **4.3 Groundwater Quality**

Current groundwater quality is generally consistent with historical observations and analyses. The Fourth Quarter 2009 TPHg results are presented in Table 3 and Figure 4. TPHg was detected in 18 of the 23 wells sampled at concentrations ranging from 50 micrograms per liter ( $\mu\text{g/L}$ ) in monitoring well W-7 to 9,800  $\mu\text{g/L}$  in monitoring well W-10. Compared to the Third Quarter of 2009, TPHg concentrations have remained relatively static.

The footprint of impacted groundwater emanating from the southwestern corner of the site has not changed substantially in shape or size since the previous groundwater monitoring events.

Hexavalent chromium was not detected in the sampled wells, and is not considered a site contaminant of concern.

### **4.4 Biodegradation**

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate,  $\text{Fe}^{2+}$ , methane, alkalinity, and ORP results. The main limiting factor is oxygen, which if introduced mechanically, could spur significant reduction in contamination through biodegradation.

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## CLOSING

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Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,  
MUREX ENVIRONMENTAL, INC.



**Jeremy R Squire, PE**  
Senior Engineer



**Paris Hajali, Ph.D., P.E.**  
Principal

**Table 1  
Well Construction Details  
Former CENCO Refinery  
Santa Fe Springs, CA**

Well Installation					Completion Data															Location	Reference(s)	
Well ID	Date	By	Elevation <sup>1</sup>		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation <sup>1</sup> (ft)							
			Ground Surface	TOC			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
			(ft)	(ft msl)					(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top			Bottom
<b>Groundwater Monitoring Wells</b>																						
EW-1	6/11/1905	Emcon	146.16	144.78	-	4	-	-	-	-	-	-	-	113.5	-	-	-	-	-	-	Walker	Versar (2000)
MW-101	8/28/1985	IT	137.55	135.23	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	138.74	136.95	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	142.09	12	4	-	20	-	-	76.5	96.5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	143.64	141.16	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro	141.03	138.63	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	148.41	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.50	152.17	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	148.93	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	146.70	146.28	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.94	132.91	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139.97	127.89	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	143.40	143.02	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	142.44	140.14	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	139.71	138.04	12	4	-	30	65.5	103	69.5	99.5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206 <sup>2</sup>	9/18/1985	IT	-	129.93	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	128.70	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	129.98	-	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	130.29	128.30	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	131.43	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	131.86	129.96	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	134.51	-	4	-	50	-	-	58	118	-	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	120.05	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.41	120.34	-	4	-	-	-	-	-	-	-	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	125.03	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar	127.06	126.53	-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	119.86	118.54	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	139.25	138.16	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	115.33	114.54	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	114.54	113.89	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	127.00	126.03	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	144.12	142.89	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2 <sup>2</sup>	12/1995	TRC	-	139.11	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3 <sup>2</sup>	12/1995	TRC	-	136.11	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	135.75	-	-	4	-	-	-	-	-	-	-	115	-	-	-	-	-	21	Walker	Versar (2000)
W-4	12/1995	TRC	141.72	142.38	-	4	-	20	-	-	580	600	609	-	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-9	8/22/2006	TA	139.67	139.12	8	2	0.01	35	73	111	75	110	110	120.5	66	28	64	29	29	19	Refinery	ARCADIS BBL (2006)
W-10	8/21/2006	TA	140.66	139.99	8	2	0.01	35	73	111	75	110	110	130	67	29	65	30	30	10	Refinery	ARCADIS BBL (2006)
W-11	8/25/2006	TA	138.70	141.29	8	2	0.01	35	73	111	75	110	110	119	68	30	66	31	31	22	Refinery	ARCADIS BBL (2006)
W-12	8/23/2006	TA	142.17	144.42	8	2	0.01	35	75	114	75	114	114	120.5	69	30	69	30	30	24	Refinery	ARCADIS BBL (2006)

**Table 1  
Well Construction Details  
Former CENCO Refinery  
Santa Fe Springs, CA**

Well Installation					Completion Data															Location	Reference(s)	
Well ID	Date	By	Elevation <sup>1</sup>		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation <sup>1</sup> (ft)							
			Ground Surface	TOC			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
			(ft)	(ft msl)					(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top			Bottom
W-14A	1/22/2008-1/30/2008	Boart Longyear	115.20	114.71	9	2	0 02	45	67	112	67	112	112	200	48	3	48	3	3	-85	MSH	ARCADIS (2008)
W-14B			115.20	114.79	9	2	0 02	10	157	167	157	167	167	200	-42	-52	-42	-52	-52	-85		
W-14C			115.20	114.80	9	2	0 02	10	185	195	185	195	195	200	-70	-80	-70	-80	-80	-85		
W-15A	11/27/2007-12/10/2007	Cascade Drilling, Inc.	127.93	127.60	10	2	0 02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)
W-15B			127.93	127.62	10	2	0 02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72		
W-15C			127.93	127.62	10	2	0 02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72		
W-16A	10/24/2007-10/30/2007	Cascade Drilling, Inc.	147.90	147.61	10	2	0 02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)
W-16B			147.90	147.68	10	2	0 02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52		
W-16C			147.90	147.67	10	2	0 02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52		
W-17A	1/31/2008-2/8/2008	Boart Longyear	141.56	141.37	9	2	0 02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)
W-17B			141.56	141.34	9	2	0 02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59		
W-17C			141.56	141.34	9	2	0 02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59		
<b>Groundwater Production Wells</b>																						
W-7	-	-	-	-	-	-	-	80	-	-	450	530	690	-	-	-	-	-	-	-	Refinery	IT (1986)
W-7	-	-	-	-	-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	-	Refinery	
W-8	-	-	-	-	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	-	Refinery	

**NOTES:**

Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

<sup>1</sup>Survey by BLC Surveying and BBL, Inc. Benchmark No. 13-15290 City of Los Angeles

<sup>2</sup>Well abandoned

- ft Feet
- in Inches
- MSH Metropolitan State Hospital Property
- msl Mean sea level
- TA Test America Drilling
- TOC Top of casing

**Table 2**  
**Summary of Groundwater Level Measurements**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	12/12/2009	NM	103.05	102.45	<b>0.60</b>	144.78	42.21
MW-101	12/12/2009	91.54	DRY	NA	0.00	135.23	NA
MW-103	12/12/2009	94.70	DRY	NA	0.00	136.95	NA
MW-104A	12/12/2009	100.08	92.50	NA	0.00	143.39	50.89
MW-105	12/12/2009	100.47	NM	NA	0.00	138.63	NA
MW-106A	12/12/2009	110.00	103.15	NA	0.00	152.51	49.36
MW-107A	12/12/2009	109.49	101.01	NA	0.00	146.71	45.70
MW-201	12/12/2009	101.60	DRY	NA	0.00	132.91	NA
MW-202	12/12/2009	92.55	DRY	NA	0.00	137.89	NA
MW-203	12/12/2009	100.55	102.30	NA	0.00	143.43	41.13
MW-204	12/12/2009	103.10	DRY	NA	0.00	142.18	NA
MW-205	12/12/2009	98.27	DRY	NA	0.00	138.04	NA
MW-501A	12/12/2009	93.27	DRY	NA	0.00	128.70	NA
MW-502	12/12/2009	100.59	DRY	NA	0.00	128.30	NA
MW-503B	12/12/2009	108.67	104.57	NA	0.00	129.96	25.39
MW-504	12/12/2009	95.76	DRY	NA	0.00	134.51	NA
MW-600A	12/12/2009	92.70	DRY	NA	0.00	120.34	NA
MW-601A	12/12/2009	89.90	DRY	NA	0.00	126.53	NA
MW-603	12/12/2009	97.60	DRY	NA	0.00	118.54	NA
MW-604	12/12/2009	103.20	DRY	NA	0.00	138.16	NA
MW-605	12/12/2009	93.98	DRY	NA	0.00	114.54	NA
MW-606	12/12/2009	99.05	DRY	NA	0.00	113.89	NA
MW-607	12/12/2009	107.05	DRY	NA	0.00	126.03	NA
W-1	12/12/2009	129.61	108.53	NA	0.00	142.89	34.36
W-10	12/12/2009	110.21	100.81	NA	0.00	139.99	39.18
W-11	12/12/2009	NM	105.30	104.72	<b>0.58</b>	141.29	35.99
W-12	12/12/2009	116.10	103.99	NA	0.00	144.42	40.43
W-14 A	12/12/2009	111.85	98.20	NA	0.00	NM	NA
W-14 B	12/12/2009	112.09	96.82	NA	0.00	NM	NA
W-14 C	12/12/2009	166.57	97.07	NA	0.00	NM	NA
W-15 A	12/12/2009	125.70	115.17	NA	0.00	NM	NA
W-15 B	12/12/2009	155.60	115.16	NA	0.00	NM	NA
W-15 C	12/12/2009	197.34	115.25	NA	0.00	NM	NA
W-16 A	12/12/2009	123.12	110.47	NA	0.00	NM	NA
W-16 B	12/12/2009	160.25	126.99	NA	0.00	NM	NA
W-16 C	12/12/2009	196.30	126.28	NA	0.00	NM	NA
W-17 A	12/12/2009	108.30	99.55	NA	0.00	NM	NA
W-17 B	12/12/2009	169.60	116.16	NA	0.00	NM	NA
W-17 C	12/12/2009	200.00	116.27	NA	0.00	NM	NA
W-3A	12/12/2009	111.52	NA	110.32	<b>1.20</b>	NM	NA
W-4	12/12/2009	129.71	110.12	NA	0.00	142.38	32.26
W-7	12/12/2009	NM	NM	NA	0.00	NM	NA
W-8	12/12/2009	NM	89.82	NA	0.00	NM	NA
W-9	12/12/2009	110.37	DRY	NA	0.00	139.12	NA

**NOTES:**

- ft Feet
- FPPH Free-phase petroleum hydrocarbon
- amsl Above mean sea level
- NM Not measured, inaccessible
- NA Not applicable

**Table 3**  
**Summary of TPHg Concentrations**  
**Former Cenco Refinery**  
**Santa Fe Springs, CA**

Well ID	TPHg (ug/L)	Sampling Date
EW-1	NS-FP	N/A
MW-101	NS-DRY	N/A
MW-103	NS-DRY	N/A
MW-104A	ND<50	12/18/2009
MW-105	NS-I	N/A
MW-106A	990	12/17/2009
MW-107A	1,500	12/17/2009
MW-107A (Duplicate)	1,700	12/17/2009
MW-201	NS-DRY	N/A
MW-202	NS-DRY	N/A
MW-203	1,800	12/17/2009
MW-204	NS-DRY	N/A
MW-205	NS-DRY	N/A
MW-501A	NS-DRY	N/A
MW-502	NS-DRY	N/A
MW-503B	4,000	12/15/2009
MW-504	NS-DRY	N/A
MW-600A	NS-DRY	N/A
MW-601A	NS-DRY	N/A
MW-603	NS-DRY	N/A
MW-604	NS-DRY	N/A
MW-605	NS-DRY	N/A
MW-606	NS-DRY	N/A
MW-607	NS-DRY	N/A
W-1	220	12/15/2009
W-3A	NS-FP	N/A
W-4	210	12/15/2009
W-4 (Duplicate)	340	12/16/2009
W-7	50	12/18/2009
W-8	190	12/18/2009
W-9	NS-I	N/A
W-10	9,300	12/18/2009
W-10 (Duplicate)	9,800	12/18/2009
W-11	NS-FP	N/A
W-12	730	12/18/2009
W-14A	ND<50	12/15/2009
W-14B	100	12/15/2009
W-14C	140	12/15/2009
W-15A	1,200	12/15/2009
W-15B	300	12/15/2009
W-15C	ND<50	12/15/2009

**Table 3**  
**Summary of TPHg Concentrations**  
**Former Cenco Refinery**  
**Santa Fe Springs, CA**

Well ID	TPHg (ug/L)	Sampling Date
W-16A	150	12/16/2009
W-16B	68	12/16/2009
W-16C	320	12/16/2009
W-17A	75	12/18/2009
W-17B	ND<50	12/18/2009
W-17C	ND<50	12/18/2009

**Notes:**

- ug/L            micrograms per liter
- ND<            Not detected above the laboratory detection limit
- NS-I            Not sampled (inaccessible)
- NS-DRY        Not sampled (dry well)
- NS-FP         Not sampled (free product in well)

**Table 4**  
**Summary of VOC and Oxygenate Concentrations**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Analyte	Detection Limit (ug/L)	MCL	Well ID:	EW-1	MW-101	MW-103	MW-104A	MW-105	MW-106A	MW-107A	MW-201	MW-202	MW-203	MW-204	
			Sampling Date:	NS-FP	NS-DRY	NS-DRY	12/18/2009	NS-I	12/17/2009	12/17/2009	NS-DRY	NS-DRY	12/17/2009	NS-DRY	
Benzene	0.5	1.00	NS-FP	NS-DRY	NS-DRY	NS-DRY	ND	NS-I	<b>9.3</b>	<b>79</b>	<b>70</b>	NS-DRY	NS-DRY	ND	NS-DRY
<i>n</i> -Butylbenzene	1.0	NA					ND		ND	2.6	1.9			ND	
<i>sec</i> -Butylbenzene	1.0	NA					ND		3.8	12	8.9			ND	
<i>tert</i> -Butylbenzene	1.0	NA					ND		1.2	1.7	1.3			ND	
Chlorobenzene	1.0	NA					ND		ND	ND	ND			ND	
Chloroethane	1.0	NA					ND		ND	ND	ND			ND	
Chloromethane	1.0	NA					ND		ND	ND	ND			ND	
1,1-Dichloroethane	1.0	5					ND		1.5	ND	ND			ND	
1,2-Dichloroethane	0.5	0.5					ND		ND	ND	ND			ND	
1,1-Dichloroethene	1.0	6					ND		ND	ND	ND			ND	
<i>cis</i> -1,2-Dichloroethene	1.0	6					4.1		<b>6.9</b>	<b>16</b>	<b>12</b>			<b>15</b>	
<i>trans</i> -1,2-Dichloroethene	1.0	10					ND		2.7	<b>20</b>	<b>15</b>			1.8	
1,2-Dichloropropane	1.0	5					ND		ND	ND	ND			ND	
Ethylbenzene	0.5	300					ND		ND	12	10			ND	
Isopropylbenzene	1.0	NA					ND		17	59	48			ND	
<i>p</i> -Isopropyltoluene	1.0	NA					ND		ND	ND	ND			ND	
Methylene Chloride	1.0	5					ND		ND	ND	ND			ND	
Naphthalene	1.0	NA					ND		ND	21	16			ND	
<i>n</i> -Propylbenzene	1.0	NA					ND		8.6	59	47			ND	
Tetrachloroethene	1.0	5					ND		ND	ND	ND			ND	
Toluene	0.5	150					ND		ND	0.85	0.65			ND	
Trichloroethene	1.0	5					ND		ND	<b>5.4</b>	<b>5.1</b>			ND	
Trichlorofluoromethane	1.0	150					ND		ND	ND	ND			ND	
1,2,4-Trimethylbenzene	1.0	NA					ND		ND	ND	ND			ND	
1,3,5-Trimethylbenzene	1.0	NA					ND		ND	2.5	1.8			ND	
Vinyl Chloride	1.0	0.5					ND		<b>19</b>	ND	ND			<b>6</b>	
<i>p/m</i> -Xylenes	1.0	1,750					ND		ND	27	22			ND	
<i>o</i> -Xylene	0.5	1,750					ND		ND	3	2.5			ND	
Xylenes, total	1.0	1,750	ND	ND	30	24.5	ND								
Diisopropyl Ether (DIPE)	2.0	NA	ND	ND	ND	ND	ND								
Methyl- <i>tert</i> -Butyl Ether (MTBE)	1.0	13	ND	ND	ND	ND	ND								
<i>tert</i> -Butyl Alcohol (TBA)	1.0	NA	ND	10	ND	ND	ND								

- Notes:**
- NS-I Not sampled (inaccessible)
  - NS-DRY Not sampled (dry well)
  - NS-FP Not sampled (free product in well)
  - NA Not available
  - ND Not detected above laboratory detection limit
  - MCL Maximum contaminant limit (CA DHS)
  - BOLD** Exceeds MCL

**Table 4**  
**Summary of VOC and Oxygenate Concentrations**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Analyte	Detection Limit (ug/L)	MCL	Well ID:	MW-205	MW-501A	MW-502	MW-503B	MW-504	MW-600A	MW-601A	MW-603	MW-604	MW-605	MW-606	MW-607
			Sampling Date:	NS-DRY	NS-DRY	NS-DRY	12/15/2009	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY
Benzene	0.5	1.00					<b>160</b>								
<i>n</i> -Butylbenzene	1.0	NA					4.2								
<i>sec</i> -Butylbenzene	1.0	NA					18								
<i>tert</i> -Butylbenzene	1.0	NA					2.4								
Chlorobenzene	1.0	NA					ND								
Chloroethane	1.0	NA					ND								
Chloromethane	1.0	NA					ND								
1,1-Dichloroethane	1.0	5					ND								
1,2-Dichloroethane	0.5	0.5					ND								
1,1-Dichloroethene	1.0	6					ND								
<i>cis</i> -1,2-Dichloroethene	1.0	6					ND								
<i>trans</i> -1,2-Dichloroethene	1.0	10					ND								
1,2-Dichloropropane	1.0	5					ND								
Ethylbenzene	0.5	300					16								
Isopropylbenzene	1.0	NA					58								
<i>p</i> -Isopropyltoluene	1.0	NA					ND								
Methylene Chloride	1.0	5	NS-DRY	NS-DRY	NS-DRY		ND	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY	NS-DRY
Naphthalene	1.0	NA					11								
<i>n</i> -Propylbenzene	1.0	NA					86								
Tetrachloroethene	1.0	5					ND								
Toluene	0.5	150					14								
Trichloroethene	1.0	5					ND								
Trichlorofluoromethane	1.0	150					ND								
1,2,4-Trimethylbenzene	1.0	NA					ND								
1,3,5-Trimethylbenzene	1.0	NA					2.2								
Vinyl Chloride	1.0	0.5					<b>10</b>								
<i>p/m</i> -Xylenes	1.0	1,750					11								
<i>o</i> -Xylene	0.5	1,750					1.5								
Xylenes, total	1.0	1,750					12.5								
Diisopropyl Ether (DIPE)	2.0	NA					ND								
Methyl- <i>tert</i> -Butyl Ether (MTBE)	1.0	13					3.6								
<i>tert</i> -Butyl Alcohol (TBA)	1.0	NA					ND								

**Notes:**

- NS-I Not sampled (inaccessible)
- NS-DRY Not sampled (dry well)
- NS-FP Not sampled (free product in well)
- NA Not available
- ND Not detected above laboratory detection limit
- MCL Maximum contaminant limit (CA DHS)
- BOLD** Exceeds MCL

**Table 4**  
**Summary of VOC and Oxygenate Concentrations**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Analyte	Detection Limit (ug/L)	MCL	Well ID:	W-1	W-3A	W-4	W-7	W-8	W-9	W-10	W-11	W-12	W-14A	W-14B
			Sampling Date:	12/15/2009	NS-FP	12/15/2009	12/18/2009	12/18/2009	NS-I	12/18/2009	NS-FP	12/18/2009	12/15/2009	12/15/2009
Benzene	0.5	1.00		ND		ND	ND	0.51		<b>7100</b>	<b>4200</b>	ND	ND	ND
<i>n</i> -Butylbenzene	1.0	NA		ND		ND	ND	ND		2.4	ND	5.2	ND	ND
<i>sec</i> -Butylbenzene	1.0	NA		ND		ND	ND	ND		2.6	ND	3	ND	ND
<i>tert</i> -Butylbenzene	1.0	NA		ND		ND	ND	ND		ND	ND	ND	ND	ND
Chlorobenzene	1.0	NA		ND		ND	ND	ND		ND	ND	ND	ND	ND
Chloroethane	1.0	NA		ND		ND	ND	ND		ND	ND	ND	ND	ND
Chloromethane	1.0	NA		ND		ND	ND	ND		ND	ND	ND	ND	ND
1,1-Dichloroethane	1.0	5		ND		ND	1.6	ND		ND<25	ND<25	ND	ND	1
1,2-Dichloroethane	0.5	0.5		ND		ND	ND	ND		<b>6.1</b>	ND<12	ND	ND	ND
1,1-Dichloroethene	1.0	6		ND		ND	ND	ND		ND	ND<25	ND	ND	<b>8.3</b>
<i>cis</i> -1,2-Dichloroethene	1.0	6		ND		<b>7.7</b>	ND	ND		ND	ND<25	ND	2.9	<b>14</b>
<i>trans</i> -1,2-Dichloroethene	1.0	10		ND		ND	ND	ND		ND	ND<25	ND	ND	2
1,2-Dichloropropane	1.0	5		ND		ND	ND	ND		9.4	ND<25	ND	ND	ND
Ethylbenzene	0.5	300		ND		ND	ND	ND		150	ND<12	3.8	ND	ND
Isopropylbenzene	1.0	NA		2.7		3.2	ND	ND		19	ND<25	5.5	ND	ND
<i>p</i> -Isopropyltoluene	1.0	NA		ND	NS-FP	ND	ND	ND	NS-I	1.7	ND<25	ND	ND	ND
Methylene Chloride	1.0	5		ND		ND	ND	ND		ND<1	ND<25	ND	ND	ND
Naphthalene	1.0	NA		ND		ND	ND	ND		130	84	ND	ND	1
<i>n</i> -Propylbenzene	1.0	NA		1.4		2.3	ND	ND		24	ND	12	ND	ND
Tetrachloroethene	1.0	5		ND		ND	ND	ND		ND	<b>140</b>	ND	ND	ND
Toluene	0.5	150		ND		ND	ND	0.7		36	<b>170</b>	ND	ND	ND
Trichloroethene	1.0	5		ND		ND	ND	ND		ND	ND<25	ND	ND	<b>16</b>
Trichlorofluoromethane	1.0	150		ND		ND	ND	ND		ND	ND<25	ND	ND	ND
1,2,4-Trimethylbenzene	1.0	NA		ND		ND	ND	ND		81	85	ND	ND	ND
1,3,5-Trimethylbenzene	1.0	NA		ND		ND	ND	ND		18	ND	ND	ND	ND
Vinyl Chloride	1.0	0.5		<b>3.8</b>		<b>7.1</b>	ND	ND		ND<1	ND<25	ND	ND	ND
<i>p/m</i> -Xylenes	1.0	1,750		ND		ND	ND	ND		220	210	ND	ND	ND
<i>o</i> -Xylene	0.5	1,750		ND		ND	ND	ND		11	32	ND	ND	ND
Xylenes, total	1.0	1,750		ND		ND	ND	ND		231	242	ND	ND	ND
Diisopropyl Ether (DIPE)	2.0	NA		ND		ND	ND	ND		ND	ND	ND	ND	ND
Methyl- <i>tert</i> -Butyl Ether (MTBE)	1.0	13		ND		ND	ND	ND		ND<2.0	ND<50	ND	ND	ND
<i>tert</i> -Butyl Alcohol (TBA)	1.0	NA		ND		ND	ND	ND		ND	ND	ND	ND	16

- Notes:**
- NS-I Not sampled (inaccessible)
  - NS-DRY Not sampled (dry well)
  - NS-FP Not sampled (free product in well)
  - NA Not available
  - ND Not detected above laboratory detection limit
  - MCL Maximum contaminant limit (CA DHS)
  - BOLD** Exceeds MCL

**Table 4**  
**Summary of VOC and Oxygenate Concentrations**  
**Former CENCO Refinery**  
**Santa Fe Springs, CA**

Analyte	Detection Limit (ug/L)	MCL	Well ID:	W-14C	W-15A	W-15B	W-15C	W-16A	W-16B	W-16C	W-17A	W-17B	W-17C
			Sampling Date:	12/15/2009	12/14/2009	12/14/2009	12/14/2009	12/16/2009	12/16/2009	12/16/2009	12/18/2009	12/18/2009	12/18/2009
Benzene	0.5	1.00		0.61	<b>2.1</b>	<b>17</b>	ND	<b>2.4</b>	<b>15</b>	<b>29</b>	<b>2.8</b>	ND	ND
<i>n</i> -Butylbenzene	1.0	NA		ND	5.3	ND							
<i>sec</i> -Butylbenzene	1.0	NA		ND	8.8	1	ND						
<i>tert</i> -Butylbenzene	1.0	NA		ND	1.2	ND							
Chlorobenzene	1.0	NA		ND	ND	ND	ND	ND	ND	<b>10</b>	ND	ND	ND
Chloroethane	1.0	NA		ND									
Chloromethane	1.0	NA		ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND
1,1-Dichloroethane	1.0	5		ND	ND	ND	ND	ND	ND	<b>29</b>	ND	ND	ND
1,2-Dichloroethane	0.5	0.5		ND									
1,1-Dichloroethene	1.0	6		3.4	ND	ND	ND	ND	ND	4	ND	ND	ND
<i>cis</i> -1,2-Dichloroethene	1.0	6		<b>14</b>	ND	ND	1.3	ND	<b>11</b>	<b>73</b>	2.1	ND	ND
<i>trans</i> -1,2-Dichloroethene	1.0	10		2.1	ND	ND	ND	ND	8.7	<b>19</b>	ND	ND	ND
1,2-Dichloropropane	1.0	5		ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND
Ethylbenzene	0.5	300		ND	5.1	ND							
Isopropylbenzene	1.0	NA		ND	53	6.3	ND	1.2	ND	ND	ND	ND	ND
<i>p</i> -Isopropyltoluene	1.0	NA		ND									
Methylene Chloride	1.0	5		ND									
Naphthalene	1.0	NA		ND	1.2	ND	ND	ND	ND	ND	13	ND	ND
<i>n</i> -Propylbenzene	1.0	NA		ND	75	6.6	ND						
Tetrachloroethene	1.0	5		ND									
Toluene	0.5	150		ND	0.73	0.53	ND						
Trichloroethene	1.0	5		<b>5.2</b>	ND								
Trichlorofluoromethane	1.0	150		ND									
1,2,4-Trimethylbenzene	1.0	NA		ND	1	ND							
1,3,5-Trimethylbenzene	1.0	NA		ND									
Vinyl Chloride	1.0	0.5		ND	ND	ND	ND	ND	ND	<b>22</b>	ND	ND	ND
<i>p/m</i> -Xylenes	1.0	1,750		ND	7.9	2.2	ND	ND	ND	ND	1.1	ND	ND
<i>o</i> -Xylene	0.5	1,750		ND	0.69	ND							
Xylenes, total	1.0	1,750		ND	8.59	2.2	ND	ND	ND	ND	1.1	ND	ND
Diisopropyl Ether (DIPE)	2.0	NA		ND									
Methyl- <i>tert</i> -Butyl Ether (MTBE)	1.0	13		ND	<b>78</b>	<b>23</b>	ND						
<i>tert</i> -Butyl Alcohol (TBA)	1.0	NA		ND	190	ND							

**Notes:**

- NS-I Not sampled (inaccessible)
- NS-DRY Not sampled (dry well)
- NS-FP Not sampled (free product in well)
- NA Not available
- ND Not detected above laboratory detection limit
- MCL Maximum contaminant limit (CA DHS)
- BOLD** Exceeds MCL

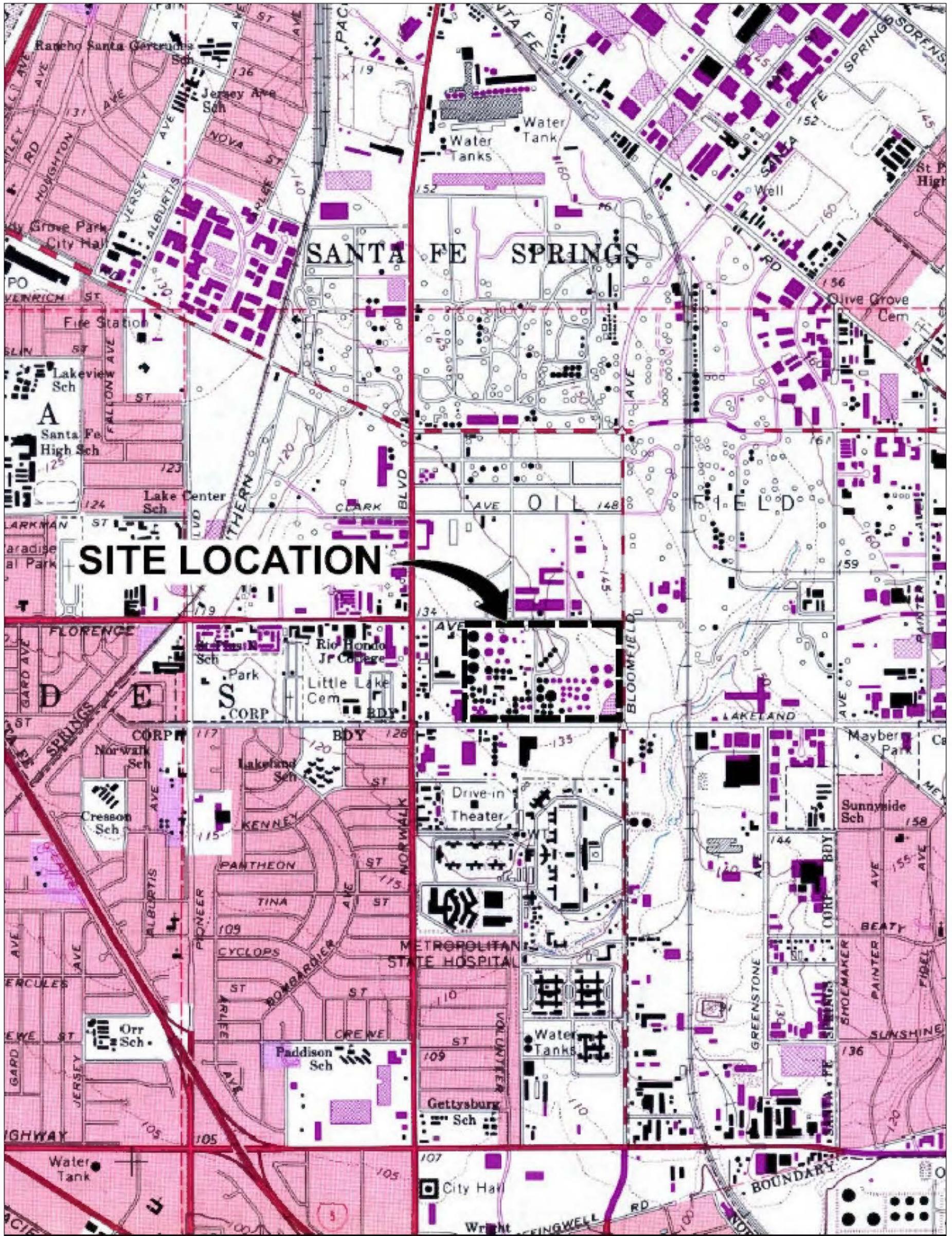
**Table 5**  
**Summary of Hexavalent Chromium Concentration**  
**Former Cenco Refinery**  
**Santa Fe Springs, CA**

Well ID	Cr <sup>+6</sup> (ug/L)	Sampling Date
EW-1	NS-FP	N/A
MW-101	NS-DRY	N/A
MW-103	NS-DRY	N/A
MW-104A	ND<1.0	12/18/2009
MW-105	NS-I	N/A
MW-106A	ND<1.0	12/17/2009
MW-107A	ND<1.0	12/17/2009
MW-107A (Duplicate)	ND<1.0	12/17/2009
MW-201	NS-DRY	N/A
MW-202	NS-DRY	N/A
MW-203	ND<1.0	12/17/2009
MW-204	NS-DRY	N/A
MW-205	NS-DRY	N/A
MW-501A	NS-DRY	N/A
MW-502	NS-DRY	N/A
MW-503B	ND<1.0	12/15/2009
MW-504	NS-DRY	N/A
MW-600A	NS-DRY	N/A
MW-601A	NS-DRY	N/A
MW-603	NS-DRY	N/A
MW-604	NS-DRY	N/A
MW-605	NS-DRY	N/A
MW-606	NS-DRY	N/A
MW-607	NS-DRY	N/A
W-1	ND<1.0	12/15/2009
W-3A	NS-FP	N/A
W-4	ND<1.0	12/15/2009
W-4 (Duplicate)	ND<1.0	12/16/2009
W-7	ND<1.0	12/18/2009
W-8	ND<1.0	12/18/2009
W-9	NS-I	N/A
W-10	ND<1.0	12/18/2009
W-10 (Duplicate)	ND<1.0	12/18/2009
W-11	NS-FP	N/A
W-12	ND<1.0	12/18/2009
W-14A	ND<1.0	12/15/2009
W-14B	ND<1.0	12/15/2009
W-14C	ND<1.0	12/15/2009
W-15A	ND<1.0	12/15/2009

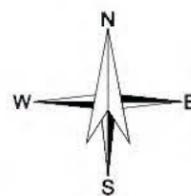
W-15B	ND<1.0	12/15/2009
W-15C	ND<1.0	12/15/2009
W-16A	ND<1.0	12/16/2009
W-16B	ND<1.0	12/16/2009
W-16C	ND<1.0	12/16/2009
W-17A	ND<1.0	12/18/2009
W-17B	ND<1.0	12/18/2009
W-17C	ND<1.0	12/18/2009

**Notes:**

ug/L            micrograms per liter  
ND<            Not detected above the laboratory detection limit  
NS-I            Not sampled (inaccessible)  
NS-DRY        Not sampled (dry well)  
NS-FP         Not sampled (free product in well)



SOURCE OF BASE MAP  
 U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



SCALE: NOT TO SCALE

CENCO REFINING COMPANY  
 12345 LAKELAND ROAD  
 SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP



FIGURE  
 1

DRAWN BY: RLM REVISION DATE: 2/02/10

# FX-9 Wells

# FX-9 Wells

# FX-9 Wells

# FX-9 Wells

# Appendix A

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: \_\_\_\_\_

WELL NO. EW-1 Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTES: may have sheen/product  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAS	3	HCL	NOT Sampled
		ice	8015M - TPH	VOAS	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

2640 Walnut Ave, Unit F, Tustin, CA 92780 | 714.508.0800 ph | 714.508.0880 fx | www.murexenv.com

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/15/09

WELL NO. MW-14A Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>112.09</u> ( ft.)
DEPTH TO WATER	<u>98.20</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>12.89</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>2.00</u> (gal)
PURGE VOLUME	x 3 = <u>6 gal</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: Good  
 WEATHER CONDITIONS: Partly Cloudy  
 PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>10:50</u>	<u>2</u>	<u>0.67</u>	<u>8.36</u>	<u>1.77</u>	<u>NS</u>	<u>7.72</u>	<u>22.32</u>	<u>NS</u>	<u>8</u>	<u>clear</u>	<u>NONE</u>
<u>10:52</u>	<u>2</u>	<u>0.67</u>	<u>8.38</u>	<u>1.77</u>	<u>NS</u>	<u>7.85</u>	<u>22.21</u>	<u>NS</u>	<u>15</u>	<u>clear</u>	<u>NONE</u>
<u>10:55</u>	<u>2</u>	<u>0.67</u>	<u>7.65</u>	<u>1.08</u>	<u>NS</u>	<u>7.76</u>	<u>24.29</u>	<u>NS</u>	<u>-23</u>	<u>clear</u>	<u>NONE</u>

VT  
 VT  
 Bailor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
<u>LLMW14A-121509-01</u>	<u>10:55</u>	<u>ice</u>	<u>8260B - VOCs &amp; Oxygen</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>Sample ID</u> <u>LL-MW14A-121509-01</u>
	<u>10:55</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	
	<u>10:55</u>	<u>ice</u>	<u>Hexavalent Chl. Poly</u>		<u>1</u>	<u>NONE</u>	

LLMW14A

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

VT - VACTRUCK  
NS - Not Sampled

**GROUNDWATER SAMPLING LOG**

PAGE 1 of 2

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/15/09

WELL NO. MW-14B Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>146.57</u> ( ft.)
DEPTH TO WATER	<u>98.82</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>67.75</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>10.72</u> (gal)
PURGE VOLUME	x 3 = <u>32.16</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: GOOD

WEATHER CONDITIONS: PARTLY CLOUDY

PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µs/cm)	Turbidity NTUs	DO mg/L	Temperature C	TDS	ORP	Color	Odor
<u>9:40</u>	<u>10</u>		<u>7.99</u>	<u>1.74</u>	<u>NM</u>	<u>8.09</u>	<u>19.30</u>	<u>NM</u>	<u>-66</u>	<u>milky brown</u>	<u>NO</u>
<u>9:50</u>	<u>15</u>	<u>0.3125</u>	<u>8.35</u>	<u>1.70</u>	<u>NM</u>	<u>8.03</u>	<u>20.23</u>	<u>NM</u>	<u>-31</u>	<u>"</u>	<u>NO</u>
<u>10:09</u>	<u>5</u>	<u>0.385</u>	<u>8.35</u>	<u>1.68</u>	<u>NM</u>	<u>8.18</u>	<u>20.48</u>	<u>NM</u>	<u>9</u>	<u>"</u>	<u>NO</u>

VT  
VT  
VT

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	<u>10:44</u>	<u>ice</u>	<u>260B - VOCs &amp; Oxygenate</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>SAMPLE ID LL-MW14B-12150901</u> <u>SAMPLE TIME 10:44 AM</u>
	<u>10:44</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	
	<u>10:44</u>	<u>ice</u>	<u>Hexavalent Chromium</u>	<u>Poly</u>	<u>1</u>	<u>None</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

VT = VAC TRUCK      NM = NOT MEASURED

Additional Groundwater Quality Parameters

Page 1 of 2

PROJECT NAME: Ceneco

PROJECT NO.: 1003-001

DATE: 12/15/09

WELL NO. MW14B Hospital  
 SAMPLED BY Yolanda Zavada

VT  
 BAILOR

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
10:16A	5	0.71	8.29	1.68	NM	8.31	20.07		7-60	milky brown	YES
10:44A	5	0.17	8.37	0.50	NM	7.79	22.39		*97	milky brown	#

BAILOR

**GROUNDWATER SAMPLING LOG**

PAGE 1 of 2

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/15/09

WELL NO. MW-14C Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>194.95</u> (ft.)
DEPTH TO WATER	<u>96.82</u> (ft.)
HEIGHT OF WATER COLUMN	<u>98.13</u> (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>15.68</u> (gal)
PURGE VOLUME	x 3 = <u>45</u> (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: GOOD

WEATHER CONDITIONS: PARTLEY CLOUDY

PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (M/s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>8:22</u>	<u>25</u>		<u>8.11</u>	<u>1.78</u>	<u>NM</u>	<u>9.47</u>	<u>13.75</u>	<u>NM</u>	<u>95</u>	<u>milkybrwn</u>	<u>yes</u>
<u>8:40</u>	<u>5</u>	<u>0.28</u>	<u>8.29</u>	<u>1.71</u>	<u>NM</u>	<u>9.20</u>	<u>14.67</u>	<u>NM</u>	<u>89</u>	<u>brown</u>	<u>yes</u>
<u>8:50</u>	<u>5</u>	<u>0.5</u>	<u>8.32</u>	<u>1.70</u>	<u>NM</u>	<u>8.77</u>	<u>15.85</u>	<u>NM</u>	<u>74</u>	<u>brown</u>	<u>yes</u>

VT  
VT  
VT

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAS	3	HCL	SAMPLE ID: LL - MW14C - 121509 - 01 SAMPLE TIME 9:10 AM
		ice	8015M - TPH-g	VOAS	+3	HCL	
		ICE	Hex chem	POLY	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

VT = VAC TRUCK  
 NM = NOT MEASURED

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: Ceneco

PROJECT NO.: 1003-001

DATE: 12/15/09

WELL NO. MW 14C

SAMPLED BY Yolanda Zavada

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. ( $\mu$ S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
9:00 AM	5	.5	8.32	1.70	NM	8.53	16.67	NM	-55	brown	yes
9:10 AM	5	.5	8.24	1.13	NM	8.57	17.72	NM	77	milky	yes

VT  
BAILOR

VT = VAC TRUCK  
NM = NOT MEASURED

## GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/14/09

WELL NO. MW-15A Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>125.70</u> ( ft.)
DEPTH TO WATER	<u>115.17</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>10.53</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>1.5</u> (gal)
PURGE VOLUME	x 3 = <u>5</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba  
 \_\_\_\_\_

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (M/s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP (mV)	Color	Odor
<u>10:37a</u>	<u>5</u>		<u>7.31</u>	<u>2.24</u>	<u>NM</u>	<u>9.15</u>	<u>21.18</u>		<u>85</u>	<u>Foggy</u>	<u>NONE</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		<u>ice</u>	<u>8260B - VOCs &amp; Oxygen</u>	<u>VOAS</u>	<u>3</u>	<u>HCL</u>	<u>SAMPLE TIME 10:37 AM</u> <u>SAMPLE ID</u> <u>LL-MW15A-121409-01</u>
		<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAS</u>	<u>43</u>	<u>HCL</u>	
		<u>ice</u>	<u>Hex chrom</u>	<u>Poly</u>	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/14/09

WELL NO. MW-15B Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>155.62</u> ( ft.)
DEPTH TO WATER	<u>115.10</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>40</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>6.4</u> (gal)
PURGE VOLUME	x 3 = <u>20</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: Good

WEATHER CONDITIONS: PARTLY CLOUDY 70'S

PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>11:29</u>	<u>20</u>		<u>7.39</u>	<u>7.42</u>	<u>NM</u>	<u>7.44</u>	<u>22.98</u>	<u>NM</u>	<u>-58</u>	<u>milky</u>	<u>NONE</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAS	3	HCL	Sample Time <u>11:29 AM</u> Sample ID <u>LL_MW15B_121409-0</u>
		ice	8015M - TPH-g	VOAS	43	HCL	
		ice	Hex chl	Poly	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: \_\_\_\_\_

WELL NO. MW-15C Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>197.34</u> ( ft.)
DEPTH TO WATER	<u>115.25</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>82.09</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>13.13</u> (gal)
PURGE VOLUME	x 3 = <u>39.39</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: Good

WEATHER CONDITIONS: 7015 Partly Cloudy

PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. M/s/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>2:40p</u>	<u>40</u>		<u>7.14</u>	<u>1.88</u>	<u>NM</u>	<u>7.18</u>	<u>21.76</u>	<u>-NM</u>	<u>-53</u>	<u>milky</u>	<u>none</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAS	3	HCL	<u>Sample Time: 2:40 pm</u> <u>SAMPLE ID: LL MW 15C-121409-09</u>
		ice	8015M - TPH-g	VOAS	<u>+3</u>	HCL	
		ice	<u>Hex Chr</u>	<u>poly</u>	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

NM = NOT MEASURED

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/16/09

WELL NO. MW-16A Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTES: \_\_\_\_\_

WELL CONDITION: Good

WEATHER CONDITIONS: Sunny 60's

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>123.12</u> ( ft.)
DEPTH TO WATER	<u>110.47</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>3</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = <u>6</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/F)	TDS	ORP	Color	Odor
<u>2:08</u>	<u>2</u>		<u>8.28</u>	<u>2.41</u>		<u>8.09</u>	<u>22.72</u>		<u>-87</u>	<u>gray</u>	<u>yes</u>
<u>2:18</u>	<u>2</u>		<u>8.25</u>	<u>2.40</u>		<u>8.39</u>	<u>21.97</u>		<u>-97</u>	<u>gray</u>	<u>yes</u>
<u>2:31</u>	<u>2</u>		<u>7.62</u>	<u>2.37</u>		<u>6.50</u>	<u>26.02</u>		<u>-62</u>	<u>gray</u>	<u>yes</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	<u>2:34</u>	<u>ice</u>	<u>8260B - VOCs</u>	<u>VOAS</u>	<u>3</u>	<u>HCL</u>	<u>LL - MW16A - 12/16/09 - 01</u>
	<u>2:34</u>	<u>ice</u>	<u>8015M - TPH</u>	<u>VOAS</u>	<u>4</u>	<u>HCL</u>	
	<u>2:34</u>	<u>ice</u>	<u>Hecht</u>	<u>Poly</u>	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

2640 Walnut Ave, Unit F, Tustin, CA 92780 | 714.508.0800 ph | 714.508.0880 fx | www.murexenv.com

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/16/09

WELL NO. MW-16B Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTES:  
 WELL CONDITION: Good  
 WEATHER CONDITIONS: Sunny 60's  
 PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>160.25</u> ( ft.)
DEPTH TO WATER	<u>126.99</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>34.00</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>5.44</u> (gal)
PURGE VOLUME	x 3 = <u>16.32</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>1:32</u>	<u>5</u>	<u>8.11</u>	<u>7.89</u>	<u>2.87</u>		<u>7.49</u>	<u>24.57</u>	-	<u>-196</u>	<u>gray</u>	<u>yes</u>
<u>1:37</u>	<u>5</u>	<u>8.23</u>	<u>7.70</u>	<u>2.70</u>		<u>7.61</u>	<u>23.98</u>	-	<u>-184</u>	<u>gray</u>	<u>yes</u>
<del>1:52</del>											

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 DATE

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	<u>1:52</u>	<u>ice</u>	<u>8260B - VOCs</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>LL-MW16B-121609-01</u>
	<u>1:52</u>	<u>ice</u>	<u>8015M - TPH</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	
	<u>1:52</u>	<u>ice</u>	<u>Hexchl</u>	<u>Poly</u>	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

1062

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/16/09

WELL NO. MW-16C Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTES:  
 WELL CONDITION: Good  
 WEATHER CONDITIONS: Sunny 60S  
 PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>196.30</u> ( ft.)
DEPTH TO WATER	<u>126.28</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>70</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>11.2</u> (gal)
PURGE VOLUME	x 3 = <u>31</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>9:15A</u>	<u>5</u>		<u>8.82</u>	<u>1.37</u>		<u>9.86</u>	<u>16.66</u>		<u>-152</u>	<u>milky</u>	<u>NO</u>
<u>9:50</u>	<u>5</u>		<u>8.77</u>	<u>1.39</u>		<u>8.25</u>	<u>17.38</u>		<u>-159</u>	<u>clear</u>	<u>no</u>
<u>10:09</u>	<u>5</u>		<u>8.83</u>	<u>1.42</u>		<u>8.53</u>	<u>18.13</u>		<u>-186</u>	<u>clear</u>	<u>NO</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	<u>LL-MW16C-121609-01</u>
		ice	8015M - TPH	VOAs	<u>43</u>	HCL	
		<u>ice</u>	<u>HexChl</u>	<u>Poly</u>	<u>3</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing  
 \*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft. <sup>3</sup>      4" well = 0.66 Gal./Foot      2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: Ceneco

PROJECT NO.: 1003-001

DATE: 12/16/09

WELL NO. 16C

SAMPLED BY Yolanda Zavada

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
10:41	5		8.83	1.39		8.49	18.49		-190	clear	None
11:25	5		8.72	1.45		8.24	21.49		-158	clear	None
12:25	5		8.15	1.47		7.12	23.86		-206	clear	Sulfur

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**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-101 Site  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	<u>91.54</u> ( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & G	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-103 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>94.70</u> ( ft.)
DEPTH TO WATER	<u>94.70</u> ( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. MW-104A Site  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>100.08</u> (ft.)
DEPTH TO WATER	<u>92.50</u> (ft.)
HEIGHT OF WATER COLUMN	<u>8</u> (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>1.28</u> (gal)
PURGE VOLUME	x 3 = <u>4.00</u> (gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: Good  
 WEATHER CONDITIONS: 60's Sunny  
 PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<del>12:59p</del>	<del>3</del>	<del>7.31</del>	<del>2</del>								
12:59p	3	-	7.31	2.63	NM	5.31	28.85	NM	3	Clear	NONE

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	Sample Time 1259pm sample ID LL-MW104A-121809-01
		ice	8015M - TPH-g	VOAs	3	HCL	
		ice	SM 3500-Ferrou	250 Poly	1	Unpreserved	
		ice	SM 2320B-Alka	250 Poly	1	Unpreserved	
		ice	RSK 175M Meth	VOAs	2	Unpreserved	
		ice	375.4-Sulfate	250 Poly	1	Unpreserved	
		ice	352.1 - Nitrate	250 Poly	1	Unpreserved	

ADDITIONAL INFORMATION: ICE HEX CHD " "

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. MW-105 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
 Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	Duplicate <b>UNACCESSABLE</b>
		ice	8015M - TPH-g	VOAs	4	HCL	
		ice	8260B - VOCs & C	VOAs	3	HCL	
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

*Key lost NEED bolt cutters*

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/17/09

WELL NO. MW-106A Bloomfield  
 SAMPLED BY Yolanda Zavada

WELL NOTES:  
 WELL CONDITION: Good

WEATHER CONDITIONS:  
70° Sunny

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>110.00</u> ( ft.)
DEPTH TO WATER	<u>103.15</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>7.00</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>4.62</u> (gal)
PURGE VOLUME	x 3 = <u>15</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µs/cm)	Turbidity NTUs	DO mg/L	Temperature (F/°C)	TDS	ORP	Color	Odor
<u>vt 10:22</u>	<u>5</u>		<u>8.21</u>	<u>2.17</u>	<u>NM</u>	<u>7.58</u>	<u>22.30</u>	<u>NM</u>	<u>-44</u>	<u>clear</u>	<u>none</u>
<u>vt 10:55</u>	<u>5</u>		<u>8.28</u>	<u>2.27</u>	<u>WM</u>	<u>9.89</u>	<u>20.04</u>	<u>NM</u>	<u>-13</u>	<u>''</u>	<u>''</u>
<u>Barlow 10:30</u>	<u>5</u>		<u>7.75</u>	<u>2.34</u>	<u>WM</u>	<u>7.29</u>	<u>27.47</u>	<u>WM</u>	<u>-112</u>	<u>''</u>	<u>''</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	Time # <u>1:03pm</u>  <u>LL-MW106A-121709-01</u>
		ice	8015M - TPH	VOAs	<u>4</u> 3	HCL	
		ice	Hexchl	250 Poly	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/17/09

WELL NO. MW-107A Bloomfield  
 SAMPLED BY Yolanda Zavada

WELL NOTE:

WELL CONDITION: Good

WEATHER CONDITIONS: Sunny 70's

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>4</u> (inches)
DEPTH OF WELL	<u>109.49</u> ( ft.)
DEPTH TO WATER	<u>101.01</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>8</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>5.28</u> (gal)
PURGE VOLUME	x 3 = <u>15.84</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/E)	TDS	ORP	Color	Odor
<u>1:19</u>	<u>5</u>		<u>8.23</u>	<u>1.83</u>		<u>7.65</u>	<u>25.94</u>		<u>-250</u>	<u>clear</u>	<u>yes</u>
<u>1:21</u>	<u>5</u>		<u>8.24</u>	<u>1.83</u>		<u>7.70</u>	<u>25.25</u>		<u>-277</u>	<u>clear</u>	<u>yes</u>
<u>1:35</u>	<u>5</u>		<u>7.70</u>	<u>1.91</u>		<u>6.99</u>	<u>26.22</u>		<u>-276</u>	<u>gray</u>	<u>yes</u>

*VT*  
*VT*  
*Bailor*

*Sulfide*

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	Duplicate <u>LL-mw107A-121709-01 1:30p</u> <u>LL-mw107A-121709-02 1:35p</u>
		ice	8015M - TPH	VOAs	<u>43</u>	HCL	
		ice	8260B - VOCs	VOAs	3	HCL	
		ice	8015M - TPH	VOAs	<u>43</u>	HCL	
		<u>Ice</u>	<u>Hexchl</u>	<u>250 poly</u>	<u>2</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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## GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: \_\_\_\_\_

WELL NO. MW-201 Site 2  
 SAMPLED BY Yolanda Zavada

WELL NOTES \_\_\_\_\_  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	DRY
		ice	8015M - TPH	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-202 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>92.55</u> ( ft.)
DEPTH TO WATER	<u>92.55</u> ( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12-17-09

WELL NO. MW-203 Bloomfield  
 SAMPLED BY Yolanda Zavada

WELL NOTES  
 WELL CONDITION: Good

WEATHER CONDITIONS:  
Sunny 60's

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>4"</u> (inches)
DEPTH OF WELL	<u>102.30</u> ( ft.)
DEPTH TO WATER	<u>100.55</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>2.00</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>2.00</u> (gal)
PURGE VOLUME	x 3 = <u>6.00</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>7:09</u>	<u>2</u>		<u>8.23</u>	<u>2.48</u>	<u>NM</u>	<u>9.04</u>	<u>16.2</u>	<u>NM</u>	<u>-102</u>	<u>milky</u>	<u>None</u>
<u>7:36</u>	<u>2</u>		<u>8.29</u>	<u>2.43</u>	<u>NM</u>	<u>9.64</u>	<u>13.04</u>	<u>NM</u>	<u>47</u>	<u>"</u>	<u>"</u>
<u>9:09</u>	<u>2</u>		<u>8.53</u>	<u>1.05</u>	<u>NM</u>	<u>7.34</u>	<u>23.35</u>	<u>NM</u>	<u>61</u>	<u>"</u>	<u>"</u>

VT  
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 DAWOR

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	Sample Time <u>9:09am</u> Sample ID <u>LL-MW203121709-01</u>
		ice	8015M - TPH	VOAs	<u>13</u>	HCL	
		ice	Hexch	Poly 250	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing  
 \*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>      4" well = 0.66 Gal./Foot      2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-204 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>103.12</u> ( ft.)
DEPTH TO WATER	<u>DRY</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>MIA</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: \_\_\_\_\_  
ODOR present  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT:  
Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-205 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>98.27</u> ( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	
		ice	SM 3500-Ferrou	250 Poly	1	Unpreserved	
		ice	SM 2320B-Alka	250 Poly	1	Unpreserved	
		ice	RSK 175M Meth	VOAs	2	Unpreserved	
		ice	375.4-Sulfate	250 Poly	1	Unpreserved	
		ice	352.1 - Nitrate	250 Poly	1	Unpreserved	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: \_\_\_\_\_

WELL NO. MW-501A Coaster  
 SAMPLED BY Yolanda Zavada

WELL NOTE: May be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* <span style="float: right;">Hgt. x 0.163 Gal./Ft. =</span>	(gal)
PURGE VOLUME <span style="float: right;">x 3 =</span>	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxy	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: \_\_\_\_\_

WELL NO. MW-502 Coaster  
 SAMPLED BY Yolanda Zavada

WELL NOTE: may have sheen/product

WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_

Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxy	VOAs	3	HCL	<b>DRY</b>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: Ceneco

PROJECT NO.: 1003-001

DATE: 12/15/09

WELL NO. MW 503 B

SAMPLED BY Yolanda Zavada

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
11:56	2		8.30	1.79		7.56	24.12		-119	black	yes
12:15	2		<del>8.30</del> 6.92	2.27		2.78	26.6		-137	black	yes

Bailor

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: \_\_\_\_\_

WELL NO. MW-504 Site 2  
 SAMPLED BY Yolanda Zavada

WELL NOTES: may be dry, may have sheen/product  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	82608 - VOCs	VOAs	3	HCL	DRY
		ice	8015M - TPH	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-600A Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

Well Notes: May be dry, had sheen/product  
 WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba  
 \_\_\_\_\_

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

## GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12-12-09

WELL NO. MW-601A Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* <span style="float: right;">Hgt. x 0.163 Gal./Ft. =</span>	(gal)
PURGE VOLUME <span style="float: right;">x 3 =</span>	(gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES: May Be Dry  
 WELL CONDITION:  
~~ADDS~~  
 WEATHER CONDITIONS:  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT:  
Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	<u>Could NOT LOCATE</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-603 Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>97.60</u> ( ft.)
DEPTH TO WATER	<u>∅</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>N/A</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba  
 \_\_\_\_\_

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	DRY
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-604 Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>103.20</u> ( ft.)
DEPTH TO WATER	<u>DRY</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>N/A</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-605 Hospital  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>93.98</u> ( ft.)
DEPTH TO WATER	<u>DRY</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>N/A</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	
		ice	SM 3500-Ferrous Iron	250 Poly	1	Unpreserved	
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved	
		ice	RSK 175M Methane	VOAs	2	Unpreserved	
		ice	375.4-Sulfate	250 Poly	1	Unpreserved	
		ice	352.1 - Nitrate	250 Poly	1	Unpreserved	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-606 Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>99.03</u> ( ft.)
DEPTH TO WATER	<u>DRY</u> ( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	
		ice	SM 3500-Ferrous Iro	250 Poly	1	Unpreserved	
		ice	SM 2320B-Alkalinity	250 Poly	1	Unpreserved	
		ice	RSK 175M Methane	VOAs	2	Unpreserved	
		ice	375.4-Sulfate	250 Poly	1	Unpreserved	
		ice	352.1 - Nitrate	250 Poly	1	Unpreserved	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. MW-607 Hospital  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>106.81</u> ( ft.)
DEPTH TO WATER	<u>DRY</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>N/A</u> ( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. =	(gal)
PURGE VOLUME x 3 =	(gal)
PRODUCT THICKNESS	( ft.)

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & Oxygen	VOAs	3	HCL	<u>DRY</u>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

page 1 of 2

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12-15-09

WELL NO. W-1 Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTES:  
 WELL CONDITION: Good  
 WEATHER CONDITIONS: Sunny 70IS  
 PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>129.61</u> ( ft.)
DEPTH TO WATER	<u>108.53</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>20</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>13</u> (gal)
PURGE VOLUME	x 3 = <u>40</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>2:38</u>	<u>5</u>		<u>8.15</u>	<u>2.59</u>		<u>8.28</u>	<u>26.12</u>		<u>-80</u>	<u>clear</u>	<u>none</u>
<u>2:40</u>	<u>5</u>		<u>8.12</u>	<u>2.60</u>		<u>8.42</u>	<u>24.02</u>		<u>-115</u>	<u>clear</u>	<u>none</u>
<u>2:45</u>	<u>5</u>		<u>8.15</u>	<u>2.63</u>		<u>7.62</u>	<u>23.34</u>		<u>-15</u>	<u>clear</u>	<u>none</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	<u>LL-W1-121509-01</u> <u>TIME 3:05 PM</u>
		ice	8015M - TPH	VOAs	<u>+3</u>	HCL	
		<u>ice</u>	<u>Heptchr</u>	<u>Poly</u>	<u>1</u>	<u>None</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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Additional Groundwater Quality Parameters

Page 2 of 2

PROJECT NAME: Ceneco

PROJECT NO.: 1003-001

DATE: 12/15/09

WELL NO. W-1

SAMPLED BY Yolanda Zavada

Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
2:48	5		8.10	2.61		7.52	23.08		-73	clear	none
2:50	5		7.97	2.69		7.74	23.36		-77	clear	none
2:55	5		7.98	2.64		7.35	23.39		-71	clear	none
3:00	5		7.95	2.63		7.73	23.68		-78	clear	none
3:05	5		7.62	2.54		7.10	23.91		-39	clear	none

Bailor

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/16/09

WELL NO. W3A Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTES: may have sheen/product

WELL CONDITION: Good

WEATHER CONDITIONS: 50'S Sunny

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER <u>4</u>	(inches)
DEPTH OF WELL <u>111.52</u>	( ft.)
DEPTH TO WATER <u>110.32</u>	( ft.)
HEIGHT OF WATER COLUMN <u>1</u>	( ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = <u>86</u>	(gal)
PURGE VOLUME x 3 = <u>86 gals</u>	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>7:12</u>	<u>5</u>		<u>product</u>								

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAS	3	HCL	<u>LL-W3A-12/16/09-01</u>
		ice	8015M - TPH	VOAS	4	HCL	
							<u>Sample 1 8:20am</u>
							<u>NOT Submitted.</u>

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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**GROUNDWATER SAMPLING LOG**

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PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/15/09

WELL NO. W-4 Walker  
 SAMPLED BY Yolanda Zavada

WELL NOTE: Good

WELL CONDITION: Good

WEATHER CONDITIONS: Sunny 70's

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>4"</u> (inches)
DEPTH OF WELL	<u>129.71</u> ( ft.)
DEPTH TO WATER	<u>110.12</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>19</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>12.54</u> (gal)
PURGE VOLUME	x 3 = <u>38.00</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>1:30</u>	<u>5</u>		<u>7.89</u>	<u>2.28</u>		<u>7.11</u>	<u>23.16</u>		<u>-48</u>	<u>clear</u>	<u>none</u>
<u>1:35</u>	<u>5</u>		<u>7.96</u>	<u>2.31</u>		<u>7.19</u>	<u>23.20</u>		<u>-49</u>	<u>clear</u>	<u>none</u>
<u>1:40</u>	<u>5</u>		<u>8.10</u>	<u>2.30</u>		<u>7.42</u>	<u>23.17</u>		<u>-56</u>	<u>clear</u>	<u>none</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
	<u>2:00p</u>	<u>ice</u>	<u>8260B - VOCs</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>LL-W4-121509-01</u>
	<u>2:00p</u>	<u>ice</u>	<u>8015M - TPH</u>	<u>VOAs</u>	<u>+3</u>	<u>HCL</u>	
	<u>2:00p</u>	<u>ice</u>	<u>Hexcha</u>	<u>Poly</u>	<u>1</u>	<u>None</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12-18-09

WELL NO. W-7 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: Deep production well-no purge (may be taken in any order)

WELL CONDITION: Good old EXTRACTION WELL

WEATHER CONDITIONS: Sunny 60'S

PURGING AND SAMPLING EQUIPMENT: Horiba WATER LEVEL METER

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER <u>12"</u>	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME* <u>Hgt x 0.163 Gal./Ft. =</u>	(gal)
PURGE VOLUME <u>x 3 =</u>	(gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	Sample Time: 1:30pm Sample ID: LL-W7-121809-01
		ice	8015M - TPH-g	VOAs	4 3	HCL	
		ice	Hex Chr	Poly 250	1		

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-8 Site  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: Deep production well-no purge (may be taken in any order)

WELL CONDITION: GOOD, EXTRACTION WELL

WEATHER CONDITIONS: Sunny 60's

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>12"</u> (inches)
DEPTH OF WELL	<u>NM</u> ( ft.)
DEPTH TO WATER	<u>89.82</u> ( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>8:52</u>			<u>10.11</u>	<u>0.829</u>	<u>NM</u>	<u>7.07</u>	<u>23.82</u>	<u>NM</u>	<u>-230</u>	<u>clear</u>	<u>NONE</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	Sample time 9:01 am Sample ID: <u>LL-W-8-121809-01</u>
		ice	8015M - TPH-g	VOAs	<u>+3</u>	HCL	
		ice	<u>Hex Chl</u>	<u>250 Poly</u>	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-8 Site  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: Deep production well-no purge (may be taken in any order)

WELL CONDITION: GOOD, EXTRACTION WELL

WEATHER CONDITIONS: Sunny 60's

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>12"</u> (inches)
DEPTH OF WELL	<u>NM</u> ( ft.)
DEPTH TO WATER	<u>89.82</u> ( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>8:52</u>			<u>10.11</u>	<u>0.829</u>	<u>NM</u>	<u>7.07</u>	<u>23.82</u>	<u>NM</u>	<u>-230</u>	<u>clear</u>	<u>NONE</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	<u>Sample time 9:01 am</u> <u>Sample ID:</u> <u>LL-W-8-121809-01</u>
		ice	8015M - TPH-g	VOAs	<u>+3</u>	HCL	
		ice	<u>H&amp;C</u>	<u>250 Poly</u>	<u>1</u>	<u>NONE</u>	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-9 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_  
 WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
 Horiba  
 \_\_\_\_\_

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	<b>UNAVAILABLE</b>
		ice	8015M - TPH-g	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

*NON WORKING TOW TRUCKS PARKED OVER*

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: Purged 12/17/09  
Sampled 12/18/09

WELL NO. W-10 Site 2  
 SAMPLED BY Yolanda Zavada

WELL NOTES: Slow recharge, purge 1day prior to event conclusion

WELL CONDITION: Good

WEATHER CONDITIONS: \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT: Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>110.60</u> ( ft.)
DEPTH TO WATER	<u>100.81</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>10</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>600</u> (gal)
PURGE VOLUME	x 3 = <u>18.00</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>12/18/09 7:20</u>	<u>3</u>		<u>7.21</u>	<u>2.71</u>		<u>6.89</u>	<u>20.67</u>		<u>-97</u>	<u>clean</u>	<u>yes</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAS	3	HCL	Duplicate LL-W10-121809-01 7:00 LL-W10-121809-02 7:15
		ice	8015M - TPH	VOAS	3	HCL	
		ice	8260B - VOCs	VOAS	3	HCL	
		ice	8015M - TPH	VOAS	3	HCL	
		ice	Heckle	Poly	2	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing  
 \*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$       4" well = 0.66 Gal./Foot      2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/12/09

WELL NO. W-11 Site 2  
 SAMPLED BY Yolanda Zavada

WELL NOTES: may have sheen/product

WELL CONDITION: \_\_\_\_\_  
 \_\_\_\_\_

WEATHER CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_

PURGING AND SAMPLING EQUIPMENT:  
Horiba

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	( ft.)
DEPTH TO WATER	( ft.)
HEIGHT OF WATER COLUMN	( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature ( F / C )	TDS	ORP	Color	Odor

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs	VOAs	3	HCL	Product NOT Sampled
		ice	8015M - TPH	VOAs	4	HCL	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing  
 \*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>                      4" well = 0.66 Gal./Foot                      2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-12 Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL NOTES: May Be Dry  
 WELL CONDITION: \_\_\_\_\_

Good

WEATHER CONDITIONS: \_\_\_\_\_  
Sunny 60's

PURGING AND SAMPLING EQUIPMENT: \_\_\_\_\_  
Horiba  
Water Level Probe

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2"</u> (inches)
DEPTH OF WELL	<u>116.10</u> ( ft.)
DEPTH TO WATER	<u>105.99</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>15</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = (gal)
PURGE VOLUME	x 3 = <u>7.2</u> (gal)
PRODUCT THICKNESS	( ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>2:08p</u>	<u>6</u>	<u>NM</u>	<u>6.99</u>	<u>2.16</u>	<u>NM</u>	<u>6.96</u>	<u>26.29</u>	<u>NM</u>	<u>0</u>	<u>Grey</u>	<u>NONE</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	<u>SAMPLE TIME 2:08pm</u> <u>Sample ID</u> <u>LL-W-12-121809-01</u>
		ice	8015M - TPH-g	VOAs	<u>43</u>	HCL	
		ice	Hexach	250poly	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-17A Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2</u> (inches)
DEPTH OF WELL	<u>108.30</u> ( ft.)
DEPTH TO WATER	<u>99.55</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>9</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>1.44</u> (gal)
PURGE VOLUME	x 3 = <u>4.32</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: Good

WEATHER CONDITIONS: 70's Sunny

PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA												
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor	
<u>10:57A</u>	<u>2</u>		<u>8.43</u>	<u>2.05</u>	<u>NM</u>	<u>8.30</u>	<u>23.07</u>	<u>NM</u>	<u>-67</u>	<u>clear</u>	<u>yes</u>	
<u>11:03</u>	<u>2</u>		<u>8.32</u>	<u>2.05</u>	<u>NM</u>	<u>8.22</u>	<u>22.29</u>	<u>NM</u>	<u>-54</u>	<u>clear</u>	<u>yes</u>	
<u>11:08</u>	<u>2</u>		<u>8.02</u>	<u>2.13</u>	<u>NM</u>	<u>7.10</u>	<u>24.34</u>	<u>NM</u>	<u>30</u>	<u>clear</u>	<u>yes</u>	

VT  
VT  
builoo

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	SAMPLE TIME <u>11:08AM</u> SAMPLE ID <u>LL-W-17A-121809-01</u>
		ice	8015M - TPH-g	VOAs	<u>4</u> 3	HCL	
		ice	Hex chr	250 Poly	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

NM = NOT MEASURED  
VT = VAC TRUCK

**GROUNDWATER SAMPLING LOG**

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-17B Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2</u> (inches)
DEPTH OF WELL	<u>1169.60</u> ( ft.)
DEPTH TO WATER	<u>116.16</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>50</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>8</u> (gal)
PURGE VOLUME	x 3 = <u>24</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: Good  
 WEATHER CONDITIONS: Sunny 60's  
 PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA												
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor	
<u>VT 10:15A</u>	<u>5</u>	<u>NM</u>	<u>7.73</u>	<u>1.59</u>	<u>NM</u>	<u>7.36</u>	<u>20.34</u>	<u>-100 NM</u>	<u>-108</u>	<u>clear</u>	<u>yes</u>	
<u>VT 10:20A</u>	<u>5</u>	<u>1</u>	<u>7.93</u>	<u>1.62</u>	<u>NM</u>	<u>7.01</u>	<u>21.97</u>	<u>NM</u>	<u>-156</u>	<u>clear</u>	<u>yes</u>	
<u>VT 10:24A</u>	<u>5</u>	<u>1.83</u>	<u>8.58</u>	<u>1.61</u>	<u>NM</u>	<u>7.00</u>	<u>23.53</u>	<u>NM</u>	<u>-203</u>	<u>clear</u>	<u>yes</u>	

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & c	VOAs	3	HCL	SAMPLE Time: <u>10:35AM</u> SAMPLE ID <u>LL-W17B-121809-01</u>
		ice	8015M - TPH-g	VOAs	+3	HCL	
		ICE	Hexlhc	250 Poly	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing  
 \*Casing Volume = r<sup>2</sup>h(ft) x 7.48 gal/ft.<sup>3</sup>  
 4" well = 0.66 Gal./Foot      2" well = 0.163 Gal./Foot



### GROUNDWATER SAMPLING LOG

PROJECT NAME: Ceneco  
 PROJECT NO.: 1003-001  
 DATE: 12/18/09

WELL NO. W-17C Site \_\_\_\_\_  
 SAMPLED BY: Yolanda Zavada

WELL INFORMATION	
TOP OF CASING ELEV.	( ft.)
WELL DIAMETER	<u>2</u> (inches)
DEPTH OF WELL	<u>200</u> ( ft.)
DEPTH TO WATER	<u>116.27</u> ( ft.)
HEIGHT OF WATER COLUMN	<u>81</u> ( ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>53</u> (gal)
PURGE VOLUME	x 3 = <u>40</u> (gal)
PRODUCT THICKNESS	( ft.)

WELL CONDITION: Good

WEATHER CONDITIONS: Sunnys 60

PURGING AND SAMPLING EQUIPMENT: Horiba

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
<u>8:12a</u>	<u>15</u>		<u>8.47</u>	<u>1.58</u>	<u>NM</u>	<u>8.60</u>	<u>18.18</u>		<u>-181</u>	<u>clear</u>	<u>yes</u>
<u>8:28</u>	<u>5</u>		<u>8.68</u>	<u>1.51</u>	<u>NM</u>	<u>8.14</u>	<u>19.09</u>		<u>-186</u>	<u>clear</u>	<u>yes</u>
<u>9:09</u>	<u>5</u>		<u>8.79</u>	<u>1.44</u>	<u>NM</u>	<u>8.74</u>	<u>20.12</u>		<u>-177</u>	<u>clear</u>	<u>yes</u>
<u>9:31</u>	<u>15</u>		<u>8.01</u>	<u>0.650</u>	<u>NM</u>	<u>NM</u>	<u>20.20</u>		<u>-142</u>	<u>clear</u>	<u>yes</u>

VT  
VT  
VT  
BAILOR

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
		ice	8260B - VOCs & C	VOAs	3	HCL	<p style="font-size: 1.2em;">SAMPLE TIME 9:31AM</p> <p style="font-size: 1.2em;">SAMPLE ID</p> <p style="font-size: 1.2em;">LL-W17C-121809-01</p>
		ice	8015M - TPH-g	VOAs	43	HCL	
		ice	Hex chl	250 Poly	1	NONE	

**ADDITIONAL INFORMATION:**

TOC = Top of well casing

\*Casing Volume =  $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

NM = NOT MEASURED

# Appendix B



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

02 February 2010

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 9  
RE: Ceneco

Enclosed are the results of analyses for samples received by the laboratory on 12/15/09 15:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler  
Laboratory Director



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:52
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL-W-15A-121509-01	T901218-01	Water	12/15/09 06:30	12/15/09 15:38
LL-W-15B-121509-01	T901218-02	Water	12/15/09 06:45	12/15/09 15:38
LL-W-15C-121509-01	T901218-03	Water	12/15/09 07:00	12/15/09 15:38
LL-W-14A-121509-01	T901218-04	Water	12/15/09 10:55	12/15/09 15:38
LL-W-14B-121509-01	T901218-05	Water	12/15/09 10:44	12/15/09 15:38
LL-W-14C-121509-01	T901218-06	Water	12/15/09 09:10	12/15/09 15:38
LL-MW503B-121509-01	T901218-07	Water	12/15/09 12:15	12/15/09 15:38
LL-W4-121509-01	T901218-08	Water	12/15/09 14:00	12/15/09 15:38
LLW1-121509-01	T901218-09	Water	12/15/09 14:00	12/15/09 15:38



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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:52
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**LL-W-15A-121509-01**  
**T901218-01(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	

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**LL-W-15B-121509-01**  
**T901218-02(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:52
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**LL-W-15C-121509-01**  
**T901218-03(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:52
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**LL-W-14A-121509-01**  
**T901218-04(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND		50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C	
<i>Surrogate 4-Bromofluorobenzene</i>			91.9 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND		0.50	"	"	"	"	"	"	
Chlorobenzene	ND		1.0	"	"	"	"	"	"	
Chloroethane	ND		1.0	"	"	"	"	"	"	
Chloroform	ND		1.0	"	"	"	"	"	"	
Chloromethane	ND		1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>2.9</b>		1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	

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 949.297.5020 Phone  
 949.297.5027 Fax

Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

Reported:  
 02/02/10 06:52

**LL-W-14A-121509-01**  
**T901218-04(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:52
--------------------------------------------------	-------------------------------------------------------------------------------	------------------------------------

**LL-W-14A-121509-01**  
**T901218-04(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			104 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			126 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			106 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:52
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**LL-W-14B-121509-01**  
**T901218-05(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	100	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		79.6 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>1.0</b>	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>8.3</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>14</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>2.0</b>	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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**LL-W-14B-121509-01**  
**T901218-05(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.0</b>		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>16</b>		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>16</b>		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LL-W-14B-121509-01**  
**T901218-05(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			102 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			138 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			101 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:52

**LL-W-14C-121509-01**  
**T901218-06(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	140	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		79.1 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>3.4</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>14</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>2.1</b>	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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**LL-W-14C-121509-01**  
**T901218-06(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>5.2</b>		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.61</b>		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LL-W-14C-121509-01**  
**T901218-06(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			107 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			120 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			107 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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**LL-MW503B-121509-01**  
**T901218-07(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	4000	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		99.8 %	72.6-146		"	"	"	"

**Metals by SM 3500 Series Methods**

Ferrous Iron	0.361	0.100	mg/l	1	9121608	12/16/09	12/22/09	EPA6010/S M3500
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**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>4.2</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>18</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>2.4</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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**LL-MW503B-121509-01**  
**T901218-07(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,2-Dichloroethene	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND		1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>58</b>		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>11</b>		1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>86</b>		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>2.2</b>		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>10</b>		1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>160</b>		5.0	"	10	"	"	12/21/09	"	
<b>Toluene</b>	<b>14</b>		0.50	"	1	"	"	12/19/09	"	
<b>Ethylbenzene</b>	<b>16</b>		0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>11</b>		1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>1.5</b>		0.50	"	"	"	"	"	"	

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**LL-MW503B-121509-01  
 T901218-07(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

Tert-amyl methyl ether	ND		2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>3.6</b>		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			104 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			121 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			107 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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**Anions by EPA Method 300.0**

<b>Sulfate as SO4</b>	<b>274</b>		5.00	mg/l	10	9121601	12/16/09	12/16/09	EPA 300.0	
Nitrate as NO3	ND		0.500	"	1	"	"	"	"	

**RSK-175**

<b>Methane</b>	<b>12200</b>		20.0	ug/l	20	9121815	12/18/09	12/22/09	RSK-175	
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**Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods**

<b>Alkalinity as CaCO3</b>	<b>530</b>		2.0	mg/l	1	W9L0947	12/21/09	12/22/09	SM 2320B	
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**LL-W4-121509-01**  
**T901218-08(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	210	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		86.4 %	72.6-146		"	"	"	"

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**LLW1-121509-01**  
**T901218-09(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
C6-C12 (GRO)	220		50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene			82.3 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND		1.0	"	"	"	"	"	"
Bromodichloromethane	ND		1.0	"	"	"	"	"	"
Bromoform	ND		1.0	"	"	"	"	"	"
Bromomethane	ND		1.0	"	"	"	"	"	"
n-Butylbenzene	ND		1.0	"	"	"	"	"	"
sec-Butylbenzene	ND		1.0	"	"	"	"	"	"
tert-Butylbenzene	ND		1.0	"	"	"	"	"	"
Carbon tetrachloride	ND		0.50	"	"	"	"	"	"
Chlorobenzene	ND		1.0	"	"	"	"	"	"
Chloroethane	ND		1.0	"	"	"	"	"	"
Chloroform	ND		1.0	"	"	"	"	"	"
Chloromethane	ND		1.0	"	"	"	"	"	"
2-Chlorotoluene	ND		1.0	"	"	"	"	"	"
4-Chlorotoluene	ND		1.0	"	"	"	"	"	"
Dibromochloromethane	ND		1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND		1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"
Dibromomethane	ND		1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND		1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND		0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"

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 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:52

**LLW1-121509-01**  
**T901218-09(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>2.7</b>		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>1.4</b>		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>3.8</b>		1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>4.9</b>		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LLW1-121509-01**  
**T901218-09(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			107 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			133 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			99.9 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121606 - EPA 5030 GC**

**Blank (9121606-BLK1)**

Prepared: 12/16/09 Analyzed: 12/23/09

Surrogate 4-Bromofluorobenzene	190			ug/l	200		94.8	72.6-146			
C6-C12 (GRO)	ND		50	"							

**LCS (9121606-BS1)**

Prepared: 12/16/09 Analyzed: 12/17/09

Surrogate 4-Bromofluorobenzene	184			ug/l	200		91.8	72.6-146			
C6-C12 (GRO)	5030		50	"	5500		91.5	75-125			

**LCS Dup (9121606-BSD1)**

Prepared: 12/16/09 Analyzed: 12/17/09

Surrogate 4-Bromofluorobenzene	184			ug/l	200		92.0	72.6-146			
C6-C12 (GRO)	5070		50	"	5500		92.1	75-125	0.634	20	

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**Metals by SM 3500 Series Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121608 - EPA 3010A</b>											
<b>Blank (9121608-BLK1)</b> Prepared: 12/16/09 Analyzed: 12/22/09											
Ferrous Iron	ND		0.100	mg/l							
<b>LCS (9121608-BS1)</b> Prepared: 12/16/09 Analyzed: 12/22/09											
Ferrous Iron	0.512		0.100	mg/l	0.526		97.4	80-120			
<b>Matrix Spike (9121608-MS1)</b> Source: T901218-07 Prepared: 12/16/09 Analyzed: 12/22/09											
Ferrous Iron	0.250		0.100	mg/l	0.526	0.361	NR	75-125			QM-07
<b>Matrix Spike Dup (9121608-MSD1)</b> Source: T901218-07 Prepared: 12/16/09 Analyzed: 12/22/09											
Ferrous Iron	0.394		0.100	mg/l	0.526	0.361	6.27	75-125	44.8	20	QM-07



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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

Surrogate 4-Bromofluorobenzene	8.44			ug/l	8.00		106	77.1-110			
Surrogate Dibromofluoromethane	8.05			"	8.00		101	66.3-111			
Surrogate Toluene-d8	8.12			"	8.00		102	84.7-109			
Bromobenzene	ND		1.0	"							
Bromochloromethane	ND		1.0	"							
Bromodichloromethane	ND		1.0	"							
Bromoform	ND		1.0	"							
Bromomethane	ND		1.0	"							
n-Butylbenzene	ND		1.0	"							
sec-Butylbenzene	ND		1.0	"							
tert-Butylbenzene	ND		1.0	"							
Carbon tetrachloride	ND		0.50	"							
Chlorobenzene	ND		1.0	"							
Chloroethane	ND		1.0	"							
Chloroform	ND		1.0	"							
Chloromethane	ND		1.0	"							
2-Chlorotoluene	ND		1.0	"							
4-Chlorotoluene	ND		1.0	"							
Dibromochloromethane	ND		1.0	"							
1,2-Dibromo-3-chloropropane	ND		1.0	"							
1,2-Dibromoethane (EDB)	ND		1.0	"							
Dibromomethane	ND		1.0	"							
1,2-Dichlorobenzene	ND		1.0	"							
1,3-Dichlorobenzene	ND		1.0	"							
1,4-Dichlorobenzene	ND		1.0	"							
Dichlorodifluoromethane	ND		0.50	"							
1,1-Dichloroethane	ND		1.0	"							

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

1,2-Dichloroethane	ND		0.50	ug/l							
1,1-Dichloroethene	ND		1.0	"							
cis-1,2-Dichloroethene	ND		1.0	"							
trans-1,2-Dichloroethene	ND		1.0	"							
1,2-Dichloropropane	ND		1.0	"							
1,3-Dichloropropane	ND		1.0	"							
2,2-Dichloropropane	ND		1.0	"							
1,1-Dichloropropene	ND		1.0	"							
cis-1,3-Dichloropropene	ND		0.50	"							
trans-1,3-Dichloropropene	ND		0.50	"							
Hexachlorobutadiene	ND		1.0	"							
Isopropylbenzene	ND		1.0	"							
p-Isopropyltoluene	ND		1.0	"							
Methylene chloride	ND		1.0	"							
Naphthalene	ND		1.0	"							
n-Propylbenzene	ND		1.0	"							
Styrene	ND		1.0	"							
1,1,2,2-Tetrachloroethane	ND		1.0	"							
1,1,1,2-Tetrachloroethane	ND		1.0	"							
Tetrachloroethene	ND		1.0	"							
1,2,3-Trichlorobenzene	ND		1.0	"							
1,2,4-Trichlorobenzene	ND		1.0	"							
1,1,2-Trichloroethane	ND		1.0	"							
1,1,1-Trichloroethane	ND		1.0	"							
Trichloroethene	ND		1.0	"							
Trichlorofluoromethane	ND		1.0	"							
1,2,3-Trichloropropane	ND		1.0	"							

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 949.297.5027 Fax

Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

Reported:  
 02/02/10 06:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

1,3,5-Trimethylbenzene	ND		1.0	ug/l							
1,2,4-Trimethylbenzene	ND		1.0	"							
Vinyl chloride	ND		1.0	"							
Benzene	ND		0.50	"							
Toluene	ND		0.50	"							
Ethylbenzene	ND		0.50	"							
m,p-Xylene	ND		1.0	"							
o-Xylene	ND		0.50	"							
Tert-amyl methyl ether	ND		2.0	"							
Tert-butyl alcohol	ND		10	"							
Di-isopropyl ether	ND		2.0	"							
Ethyl tert-butyl ether	ND		2.0	"							
Methyl tert-butyl ether	ND		1.0	"							

**LCS (9121605-BS1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Surrogate 4-Bromofluorobenzene	8.24			ug/l	8.00		103	77.1-110			
Surrogate Dibromofluoromethane	8.62			"	8.00		108	66.3-111			
Surrogate Toluene-d8	8.21			"	8.00		103	84.7-109			
Chlorobenzene	19.8		1.0	"	20.0		98.8	75-125			
1,1-Dichloroethene	21.4		1.0	"	20.0		107	75-125			
Trichloroethene	18.9		1.0	"	20.0		94.6	75-125			
Benzene	22.9		0.50	"	20.0		115	75-125			
Toluene	24.2		0.50	"	20.0		121	75-125			

**LCS Dup (9121605-BSD1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Surrogate 4-Bromofluorobenzene	8.16			ug/l	8.00		102	77.1-110			
Surrogate Dibromofluoromethane	8.88			"	8.00		111	66.3-111			
Surrogate Toluene-d8	7.92			"	8.00		99.0	84.7-109			
Chlorobenzene	20.9		1.0	"	20.0		104	75-125	5.46	20	

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**LCS Dup (9121605-BSD1)**

Prepared: 12/18/09 Analyzed: 12/20/09

1,1-Dichloroethene	21.8		1.0	ug/l	20.0		109	75-125	1.90	20	
Trichloroethene	20.0		1.0	"	20.0		100	75-125	5.80	20	
Benzene	22.0		0.50	"	20.0		110	75-125	4.32	20	
Toluene	23.8		0.50	"	20.0		119	75-125	1.71	20	

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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121604 - General Preparation</b>											
<b>Blank (9121604-BLK1)</b> Prepared & Analyzed: 12/17/09											
Hexavalent Chromium	ND		1.00	ug/l							
<b>LCS (9121604-BS1)</b> Prepared & Analyzed: 12/17/09											
Hexavalent Chromium	21.7		1.00	ug/l	25.0		86.7	85-115			
<b>Matrix Spike (9121604-MS1)</b> Source: T901218-01 Prepared & Analyzed: 12/17/09											
Hexavalent Chromium	ND		1.00	ug/l	25.0	ND		85-115			QM-05
<b>Matrix Spike Dup (9121604-MSD1)</b> Source: T901218-01 Prepared & Analyzed: 12/17/09											
Hexavalent Chromium	ND		1.00	ug/l	25.0	ND		85-115	20		QM-05



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**Anions by EPA Method 300.0 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121601 - General Preparation**

<b>Blank (9121601-BLK1)</b>		Prepared & Analyzed: 12/16/09									
Sulfate as SO4	ND		0.500	mg/l							
Nitrate as NO3	ND		0.500	"							
<b>LCS (9121601-BS1)</b>		Prepared & Analyzed: 12/16/09									
Sulfate as SO4	9.51		0.500	mg/l	10.0		95.1	80-120			
Nitrate as NO3	10.4		0.500	"	11.1		93.8	80-120			
<b>Matrix Spike (9121601-MS1)</b>		<b>Source: T901218-07</b>		Prepared & Analyzed: 12/16/09							
Sulfate as SO4	373		5.00	mg/l	100	274	99.3	80-120			
Nitrate as NO3	108		5.00	"	111	ND	97.1	80-120			
<b>Matrix Spike Dup (9121601-MSD1)</b>		<b>Source: T901218-07</b>		Prepared & Analyzed: 12/16/09							
Sulfate as SO4	366		5.00	mg/l	100	274	92.2	80-120	1.91	20	
Nitrate as NO3	104		5.00	"	111	ND	93.7	80-120	3.51	20	



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**RSK-175 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121815 - EPA 3810m Headspace</b>											
<b>Blank (9121815-BLK1)</b>					Prepared: 12/18/09 Analyzed: 12/22/09						
Methane	ND		1.00	ug/l							
<b>LCS (9121815-BS1)</b>					Prepared: 12/18/09 Analyzed: 12/22/09						
Methane	108			ug/l	120		89.9	75-125			
<b>LCS Dup (9121815-BSD1)</b>					Prepared: 12/18/09 Analyzed: 12/22/09						
Methane	109			ug/l	120		91.2	75-125	1.38	20	

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**Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control**  
**Weck Laboratories, Inc**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch W9L0947 - General Prep</b>											
<b>Blank (W9L0947-BLK1)</b>						Prepared: 12/21/09 Analyzed: 12/22/09					
Alkalinity as CaCO3	2.74		2.0	mg/l							B-06
<b>LCS (W9L0947-BS1)</b>						Prepared: 12/21/09 Analyzed: 12/22/09					
Alkalinity as CaCO3	35.6		2.0	mg/l	35.1		101	94-108			
<b>Duplicate (W9L0947-DUP1)</b>			<b>Source: 9L14002-01</b>			Prepared: 12/21/09 Analyzed: 12/22/09					
Alkalinity as CaCO3	174		2.0	mg/l		173			0.3	15	

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 9

Project: Ceneco  
Project Number: 1003.001  
Project Manager: Jeremy Squire

**Reported:**  
02/02/10 06:52

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- B-06 This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





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949.297.5027 Fax

02 February 2010

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 9  
RE: Ceneco

Enclosed are the results of analyses for samples received by the laboratory on 12/15/09 15:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler  
Laboratory Director



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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL-W-15A-121409-01	T901219-01	Water	12/14/09 10:37	12/15/09 15:38
LL-W-15B-121409-01	T901219-02	Water	12/14/09 11:29	12/15/09 15:38
LL-W-15C-121409-01	T901219-03	Water	12/14/09 14:40	12/15/09 15:38

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**LL-W-15A-121409-01**  
**T901219-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	1200	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		99.6 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>5.3</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>8.8</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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**LL-W-15A-121409-01**  
**T901219-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>53</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>75</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.0</b>	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>21</b>	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.73</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.51</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>7.9</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>0.69</b>	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>190</b>	10	"	"	"	"	"	"	

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 949.297.5020 Phone  
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**LL-W-15A-121409-01**  
**T901219-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>78</b>	25	"	25	"	"	12/21/09	"	
<i>Surrogate 4-Bromofluorobenzene</i>		104 %	77.1-110		"	"	12/19/09	"	
<i>Surrogate Dibromofluoromethane</i>		127 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		109 %	84.7-109		"	"	"	"	

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**LL-W-15B-121409-01**  
**T901219-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	300	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		78.7 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>1.0</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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 Lake Forest, California 92630  
 949.297.5020 Phone  
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**LL-W-15B-121409-01**  
**T901219-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>6.3</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>6.6</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>17</b>	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.53</b>	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>2.2</b>	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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Kevin Moore For John Shepler, Laboratory Director



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:49
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**LL-W-15B-121409-01**  
**T901219-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>23</b>	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		108 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		118 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		105 %	84.7-109		"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-W-15C-121409-01**  
**T901219-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	9121606	12/16/09	12/17/09	EPA 8015C	
<i>Surrogate 4-Bromofluorobenzene</i>		<i>75.4 %</i>	<i>72.6-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	"

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	Reported: 02/02/10 06:49
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**LL-W-15C-121409-01**  
**T901219-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:49
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**LL-W-15C-121409-01**  
**T901219-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		105 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		116 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		105 %	84.7-109		"	"	"	"	

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 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	Reported: 02/02/10 06:49
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121606 - EPA 5030 GC**

<b>Blank (9121606-BLK1)</b>										
					Prepared: 12/16/09 Analyzed: 12/23/09					
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	190		"	200		94.8	72.6-146			
<b>LCS (9121606-BS1)</b>										
					Prepared: 12/16/09 Analyzed: 12/17/09					
C6-C12 (GRO)	5030	50	ug/l	5500		91.5	75-125			
Surrogate 4-Bromofluorobenzene	184		"	200		91.8	72.6-146			
<b>LCS Dup (9121606-BSD1)</b>										
					Prepared: 12/16/09 Analyzed: 12/17/09					
C6-C12 (GRO)	5070	50	ug/l	5500		92.1	75-125	0.634	20	
Surrogate 4-Bromofluorobenzene	184		"	200		92.0	72.6-146			

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Kevin Moore For John Shepler, Laboratory Director



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

Reported:  
 02/02/10 06:49

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate 4-Bromofluorobenzene	8.44		"	8.00		106	77.1-110			
Surrogate Dibromofluoromethane	8.05		"	8.00		101	66.3-111			
Surrogate Toluene-d8	8.12		"	8.00		102	84.7-109			

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 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	Reported: 02/02/10 06:49
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**LCS (9121605-BS1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Chlorobenzene	19.8	1.0	ug/l	20.0		98.8	75-125			
1,1-Dichloroethene	21.4	1.0	"	20.0		107	75-125			
Trichloroethene	18.9	1.0	"	20.0		94.6	75-125			
Benzene	22.9	0.50	"	20.0		115	75-125			
Toluene	24.2	0.50	"	20.0		121	75-125			
Surrogate 4-Bromofluorobenzene	8.24		"	8.00		103	77.1-110			
Surrogate Dibromofluoromethane	8.62		"	8.00		108	66.3-111			
Surrogate Toluene-d8	8.21		"	8.00		103	84.7-109			

**LCS Dup (9121605-BSD1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Chlorobenzene	20.9	1.0	ug/l	20.0		104	75-125	5.46	20	
1,1-Dichloroethene	21.8	1.0	"	20.0		109	75-125	1.90	20	
Trichloroethene	20.0	1.0	"	20.0		100	75-125	5.80	20	
Benzene	22.0	0.50	"	20.0		110	75-125	4.32	20	
Toluene	23.8	0.50	"	20.0		119	75-125	1.71	20	
Surrogate 4-Bromofluorobenzene	8.16		"	8.00		102	77.1-110			
Surrogate Dibromofluoromethane	8.88		"	8.00		111	66.3-111			
Surrogate Toluene-d8	7.92		"	8.00		99.0	84.7-109			

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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 9

Project: Ceneco  
Project Number: 1003.001  
Project Manager: Jeremy Squire

**Reported:**  
02/02/10 06:49

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

02 February 2010

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 9  
RE: Ceneco

Enclosed are the results of analyses for samples received by the laboratory on 12/16/09 15:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler  
Laboratory Director



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003-001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:53
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W4-121609-01	T901225-01	Water	12/16/09 07:30	12/16/09 15:14
LL_W-16C-121609-01	T901225-02	Water	12/16/09 12:25	12/16/09 15:14
LL_W-16B-121609-01	T901225-03	Water	12/16/09 13:52	12/16/09 15:14
LL_W-16A-121609-01	T901225-04	Water	12/16/09 14:33	12/16/09 15:14

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003-001 Project Manager: Jeremy Squire	Reported: 02/02/10 06:53
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**LL\_W4-121609-01**  
**T901225-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	340	50	ug/l	1	9121615	12/16/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		78.6 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>7.7</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003-001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:53

**LL\_W4-121609-01**  
**T901225-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>3.2</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>2.3</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>7.1</b>	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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 949.297.5020 Phone  
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**LL\_W4-121609-01**  
**T901225-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		107 %		77.1-110	"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		125 %		66.3-111	"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		106 %		84.7-109	"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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 949.297.5020 Phone  
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**LL\_W-16C-121609-01**  
**T901225-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	320	50	ug/l	1	9121615	12/16/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		80.4 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
<b>Chlorobenzene</b>	<b>10</b>	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
<b>1,2-Dichlorobenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>29</b>	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethene</b>	<b>4.0</b>	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>73</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>19</b>	1.0	"	"	"	"	"	"
<b>1,2-Dichloropropane</b>	<b>2.8</b>	1.0	"	"	"	"	"	"

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL\_W-16C-121609-01**  
**T901225-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>22</b>	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>29</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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 949.297.5020 Phone  
 949.297.5027 Fax

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**LL\_W-16C-121609-01  
 T901225-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		110 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		141 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		101 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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 949.297.5020 Phone  
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**LL\_W-16B-121609-01**  
**T901225-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	68	50	ug/l	1	9121615	12/16/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		96.0 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>11</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>8.7</b>	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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**LL\_W-16B-121609-01**  
**T901225-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>15</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003-001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:53
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**LL\_W-16B-121609-01  
 T901225-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		104 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		147 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		94.5 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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 949.297.5020 Phone  
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**LL\_W-16A-121609-01**  
**T901225-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	150	50	ug/l	1	9121615	12/16/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		97.0 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
<b>Chloroethane</b>	<b>1.4</b>	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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 949.297.5020 Phone  
 949.297.5027 Fax

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**LL\_W-16A-121609-01**  
**T901225-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.4</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL\_W-16A-121609-01**  
**T901225-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		107 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		129 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		104 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121604	12/16/09	12/17/09	EPA 7199	
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 Lake Forest, California 92630  
 949.297.5020 Phone  
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121615 - EPA 5030 GC**

<b>Blank (9121615-BLK1)</b>										
					Prepared: 12/16/09 Analyzed: 12/19/09					
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	156		"	200		78.0	72.6-146			
<b>LCS (9121615-BS1)</b>										
					Prepared: 12/16/09 Analyzed: 12/19/09					
C6-C12 (GRO)	5710	50	ug/l	5500		104	75-125			
Surrogate 4-Bromofluorobenzene	168		"	200		84.1	72.6-146			
<b>LCS Dup (9121615-BSD1)</b>										
					Prepared: 12/16/09 Analyzed: 12/19/09					
C6-C12 (GRO)	5750	50	ug/l	5500		105	75-125	0.758	20	
Surrogate 4-Bromofluorobenzene	169		"	200		84.7	72.6-146			

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 949.297.5020 Phone  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate 4-Bromofluorobenzene	8.44		"	8.00		106	77.1-110			
Surrogate Dibromofluoromethane	8.05		"	8.00		101	66.3-111			
Surrogate Toluene-d8	8.12		"	8.00		102	84.7-109			

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 Lake Forest, California 92630  
 949.297.5020 Phone  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**LCS (9121605-BS1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Chlorobenzene	19.8	1.0	ug/l	20.0		98.8	75-125			
1,1-Dichloroethene	21.4	1.0	"	20.0		107	75-125			
Trichloroethene	18.9	1.0	"	20.0		94.6	75-125			
Benzene	22.9	0.50	"	20.0		115	75-125			
Toluene	24.2	0.50	"	20.0		121	75-125			
Surrogate 4-Bromofluorobenzene	8.24		"	8.00		103	77.1-110			
Surrogate Dibromofluoromethane	8.62		"	8.00		108	66.3-111			
Surrogate Toluene-d8	8.21		"	8.00		103	84.7-109			

**LCS Dup (9121605-BSD1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Chlorobenzene	20.9	1.0	ug/l	20.0		104	75-125	5.46	20	
1,1-Dichloroethene	21.8	1.0	"	20.0		109	75-125	1.90	20	
Trichloroethene	20.0	1.0	"	20.0		100	75-125	5.80	20	
Benzene	22.0	0.50	"	20.0		110	75-125	4.32	20	
Toluene	23.8	0.50	"	20.0		119	75-125	1.71	20	
Surrogate 4-Bromofluorobenzene	8.16		"	8.00		102	77.1-110			
Surrogate Dibromofluoromethane	8.88		"	8.00		111	66.3-111			
Surrogate Toluene-d8	7.92		"	8.00		99.0	84.7-109			

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 949.297.5020 Phone  
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121604 - General Preparation**

<b>Blank (9121604-BLK1)</b>				Prepared & Analyzed: 12/17/09						
Hexavalent Chromium	ND	1.00	ug/l							
<b>LCS (9121604-BS1)</b>				Prepared & Analyzed: 12/17/09						
Hexavalent Chromium	21.7	1.00	ug/l	25.0		86.7	85-115			
<b>Matrix Spike (9121604-MS1)</b>				<b>Source: T901218-01</b>		Prepared & Analyzed: 12/17/09				
Hexavalent Chromium	ND	1.00	ug/l	25.0	ND		85-115			QM-05
<b>Matrix Spike Dup (9121604-MSD1)</b>				<b>Source: T901218-01</b>		Prepared & Analyzed: 12/17/09				
Hexavalent Chromium	ND	1.00	ug/l	25.0	ND		85-115	20		QM-05

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Kevin Moore For John Shepler, Laboratory Director

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003-001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:53
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### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

02 February 2010

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 9  
RE: Ceneco

Enclosed are the results of analyses for samples received by the laboratory on 12/17/09 13:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler  
Laboratory Director



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:46
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL-MW-203-121709-01	T901233-01	Water	12/17/09 09:09	12/17/09 13:57
LL-MW-107A-121709-01	T901233-02	Water	12/17/09 10:30	12/17/09 13:57
LL-MW-107A-121709-02	T901233-03	Water	12/17/09 09:35	12/17/09 13:57
LL-MW-106A-121709-01	T901233-04	Water	12/17/09 13:03	12/17/09 13:57

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	Reported: 02/02/10 06:46
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**LL-MW-203-121709-01**  
**T901233-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	1800	50	ug/l	1	9121615	12/18/09	12/28/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		111 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>15</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>1.8</b>	1.0	"	"	"	"	"	"

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 Lake Forest, California 92630  
 949.297.5020 Phone  
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**LL-MW-203-121709-01**  
**T901233-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>6.0</b>	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-MW-203-121709-01**  
**T901233-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		104 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		141 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		98.4 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121816	12/17/09	12/21/09	EPA 7199	
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 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-MW-107A-121709-01**  
**T901233-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>1500</b>	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C	
<i>Surrogate 4-Bromofluorobenzene</i>		94.1 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>2.6</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>12</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
<b>Chloromethane</b>	<b>47</b>	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>16</b>	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>20</b>	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-MW-107A-121709-01**  
**T901233-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>59</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>21</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>59</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>5.4</b>	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>2.5</b>	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>79</b>	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.85</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>12</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>27</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>3.0</b>	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-MW-107A-121709-01  
 T901233-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		182 %	77.1-110		"	"	"	"	S-02
<i>Surrogate Dibromofluoromethane</i>		161 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		98.0 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121816	12/17/09	12/21/09	EPA 7199	
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 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-MW-107A-121709-02**  
**T901233-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>1700</b>	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C	
<i>Surrogate 4-Bromofluorobenzene</i>		88.0 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>1.9</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>8.9</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
<b>Chloromethane</b>	<b>42</b>	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>12</b>	1.0	"	"	"	"	"	"	
<b>trans-1,2-Dichloroethene</b>	<b>15</b>	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**LL-MW-107A-121709-02**  
**T901233-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>48</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>16</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>47</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>5.1</b>	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>1.8</b>	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>70</b>	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.65</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>10</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>22</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>2.5</b>	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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**LL-MW-107A-121709-02  
 T901233-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/20/09	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		170 %	77.1-110		"	"	"	"	S-02
<i>Surrogate Dibromofluoromethane</i>		128 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		103 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121816	12/17/09	12/21/09	EPA 7199	
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**LL-MW-106A-121709-01**  
**T901233-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	990	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		97.5 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"
<b>tert-Butylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
<b>Chloromethane</b>	<b>1.5</b>	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>1.5</b>	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>6.9</b>	1.0	"	"	"	"	"	"
<b>trans-1,2-Dichloroethene</b>	<b>2.7</b>	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:46

**LL-MW-106A-121709-01**  
**T901233-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>17</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>8.6</b>	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>19</b>	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>9.3</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>10</b>	10	"	"	"	"	"	"	

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**LL-MW-106A-121709-01**  
**T901233-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Di-isopropyl ether	ND	2.0	ug/l	1	9121605	12/18/09	12/19/09	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		105 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>		124 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>		102 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND	1.00	ug/l	1	9121816	12/17/09	12/22/09	EPA 7199	
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 949.297.5020 Phone  
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121615 - EPA 5030 GC**

<b>Blank (9121615-BLK1)</b>		Prepared: 12/16/09 Analyzed: 12/19/09								
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	156		"	200		78.0	72.6-146			
<b>LCS (9121615-BS1)</b>		Prepared: 12/16/09 Analyzed: 12/19/09								
C6-C12 (GRO)	5710	50	ug/l	5500		104	75-125			
Surrogate 4-Bromofluorobenzene	168		"	200		84.1	72.6-146			
<b>LCS Dup (9121615-BSD1)</b>		Prepared: 12/16/09 Analyzed: 12/19/09								
C6-C12 (GRO)	5750	50	ug/l	5500		105	75-125	0.758	20	
Surrogate 4-Bromofluorobenzene	169		"	200		84.7	72.6-146			

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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 949.297.5020 Phone  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**Blank (9121605-BLK1)**

Prepared: 12/18/09 Analyzed: 12/19/09

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate 4-Bromofluorobenzene	8.44		"	8.00		106	77.1-110			
Surrogate Dibromofluoromethane	8.05		"	8.00		101	66.3-111			
Surrogate Toluene-d8	8.12		"	8.00		102	84.7-109			

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121605 - EPA 5030 GCMS**

**LCS (9121605-BS1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Chlorobenzene	19.8	1.0	ug/l	20.0		98.8	75-125			
1,1-Dichloroethene	21.4	1.0	"	20.0		107	75-125			
Trichloroethene	18.9	1.0	"	20.0		94.6	75-125			
Benzene	22.9	0.50	"	20.0		115	75-125			
Toluene	24.2	0.50	"	20.0		121	75-125			
Surrogate 4-Bromofluorobenzene	8.24		"	8.00		103	77.1-110			
Surrogate Dibromofluoromethane	8.62		"	8.00		108	66.3-111			
Surrogate Toluene-d8	8.21		"	8.00		103	84.7-109			

**LCS Dup (9121605-BSD1)**

Prepared: 12/18/09 Analyzed: 12/20/09

Chlorobenzene	20.9	1.0	ug/l	20.0		104	75-125	5.46	20	
1,1-Dichloroethene	21.8	1.0	"	20.0		109	75-125	1.90	20	
Trichloroethene	20.0	1.0	"	20.0		100	75-125	5.80	20	
Benzene	22.0	0.50	"	20.0		110	75-125	4.32	20	
Toluene	23.8	0.50	"	20.0		119	75-125	1.71	20	
Surrogate 4-Bromofluorobenzene	8.16		"	8.00		102	77.1-110			
Surrogate Dibromofluoromethane	8.88		"	8.00		111	66.3-111			
Surrogate Toluene-d8	7.92		"	8.00		99.0	84.7-109			

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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121816 - General Preparation**

<b>Blank (9121816-BLK1)</b>				Prepared & Analyzed: 12/21/09						
Hexavalent Chromium	ND	1.00	ug/l							
<b>LCS (9121816-BS1)</b>				Prepared & Analyzed: 12/21/09						
Hexavalent Chromium	25.9	1.00	ug/l	25.0		103	85-115			
<b>Matrix Spike (9121816-MS1)</b>				Source: T901246-01		Prepared: 12/21/09 Analyzed: 12/22/09				
Hexavalent Chromium	21.6	1.00	ug/l	25.0	0.0950	85.9	85-115			
<b>Matrix Spike Dup (9121816-MSD1)</b>				Source: T901246-01		Prepared: 12/21/09 Analyzed: 12/22/09				
Hexavalent Chromium	22.6	1.00	ug/l	25.0	0.0950	90.0	85-115	4.62	20	

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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:46
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### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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---

Kevin Moore For John Shepler, Laboratory Director



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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

02 February 2010

Jeremy Squire  
Murex  
2640 Walnut Ave. Unit F  
Tustin, CA 9  
RE: Ceneco

Enclosed are the results of analyses for samples received by the laboratory on 12/18/09 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore For John Shepler  
Laboratory Director



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W- 10_121809_01	T901246-01	Water	12/18/09 07:00	12/18/09 15:00
LL_W -10_121809_02	T901246-02	Water	12/18/09 07:15	12/18/09 15:00
LL_W- 17A_121809_01	T901246-03	Water	12/18/09 11:08	12/18/09 15:00
LL_W -17B_121809_01	T901246-04	Water	12/18/09 10:35	12/18/09 15:00
LL_W -17C_121809_01	T901246-05	Water	12/18/09 09:31	12/18/09 15:00
LL_W -8_121809_01	T901246-06	Water	12/18/09 09:01	12/18/09 15:00
LL_MW- 104A_121809_01	T901246-07	Water	12/18/09 12:59	12/18/09 15:00
LL_W -7_121809_01	T901246-08	Water	12/18/09 13:30	12/18/09 15:00
LL_W -12_121809_01	T901246-09	Water	12/18/09 14:08	12/18/09 15:00



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 949.297.5020 Phone  
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W- 10\_121809\_01**  
**T901246-01(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	9300	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		92.2 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>2.4</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>2.9</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
<b>1,2-Dichloroethane</b>	<b>6.1</b>	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>1,2-Dichloropropane</b>	<b>9.4</b>	1.0	"	"	"	"	"	"

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**LL\_W- 10\_121809\_01**  
**T901246-01(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>19</b>		1.0	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>1.7</b>		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>130</b>		1.0	"	"	"	"	"	"	E-1
<b>n-Propylbenzene</b>	<b>24</b>		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>18</b>		1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>81</b>		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>7100</b>		500	"	1000	"	"	12/28/09	"	
<b>Toluene</b>	<b>36</b>		0.50	"	1	"	"	12/22/09	"	
<b>Ethylbenzene</b>	<b>150</b>		0.50	"	"	"	"	"	"	E-1
<b>m,p-Xylene</b>	<b>220</b>		1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>11</b>		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	

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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
--------------------------------------------------	-------------------------------------------------------------------------------	------------------------------------

**LL\_W- 10\_121809\_01**  
**T901246-01(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Methyl tert-butyl ether	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Surrogate 4-Bromofluorobenzene			115 %	77.1-110		"	"	"	"	S-GC
Surrogate Dibromofluoromethane			132 %	66.3-111		"	"	"	"	S-GC
Surrogate Toluene-d8			98.6 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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**LL\_W -10\_121809\_02**  
**T901246-02(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	9800	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
<i>Surrogate 4-Bromofluorobenzene</i>		93.1 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	25	ug/l	25	9121806	12/18/09	12/28/09	EPA 8260B
Bromochloromethane	ND	25	"	"	"	"	"	"
Bromodichloromethane	ND	25	"	"	"	"	"	"
Bromoform	ND	25	"	"	"	"	"	"
Bromomethane	ND	25	"	"	"	"	"	"
n-Butylbenzene	ND	25	"	"	"	"	"	"
sec-Butylbenzene	ND	25	"	"	"	"	"	"
tert-Butylbenzene	ND	25	"	"	"	"	"	"
Carbon tetrachloride	ND	12	"	"	"	"	"	"
Chlorobenzene	ND	25	"	"	"	"	"	"
Chloroethane	ND	25	"	"	"	"	"	"
Chloroform	ND	25	"	"	"	"	"	"
Chloromethane	ND	25	"	"	"	"	"	"
2-Chlorotoluene	ND	25	"	"	"	"	"	"
4-Chlorotoluene	ND	25	"	"	"	"	"	"
Dibromochloromethane	ND	25	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	25	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"
Dibromomethane	ND	25	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	25	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	25	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	25	"	"	"	"	"	"
Dichlorodifluoromethane	ND	12	"	"	"	"	"	"
1,1-Dichloroethane	ND	25	"	"	"	"	"	"
1,2-Dichloroethane	ND	12	"	"	"	"	"	"
1,1-Dichloroethene	ND	25	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	25	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	25	"	"	"	"	"	"
1,2-Dichloropropane	ND	25	"	"	"	"	"	"

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 949.297.5020 Phone  
 949.297.5027 Fax

Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:40

**LL\_W -10\_121809\_02**  
**T901246-02(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		25	ug/l	25	9121806	12/18/09	12/28/09	EPA 8260B	
2,2-Dichloropropane	ND		25	"	"	"	"	"	"	
1,1-Dichloropropene	ND		25	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		12	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		12	"	"	"	"	"	"	
Hexachlorobutadiene	ND		25	"	"	"	"	"	"	
Isopropylbenzene	ND		25	"	"	"	"	"	"	
p-Isopropyltoluene	ND		25	"	"	"	"	"	"	
Methylene chloride	ND		25	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>84</b>		25	"	"	"	"	"	"	
n-Propylbenzene	ND		25	"	"	"	"	"	"	
Styrene	ND		25	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		25	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		25	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>140</b>		25	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		25	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		25	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		25	"	"	"	"	"	"	
Trichloroethene	ND		25	"	"	"	"	"	"	
Trichlorofluoromethane	ND		25	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		25	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>85</b>		25	"	"	"	"	"	"	
Vinyl chloride	ND		25	"	"	"	"	"	"	
<b>Benzene</b>	<b>4200</b>		50	"	100	"	"	12/29/09	"	
<b>Toluene</b>	<b>170</b>		12	"	25	"	"	12/28/09	"	
<b>Ethylbenzene</b>	<b>210</b>		12	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>390</b>		25	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>32</b>		12	"	"	"	"	"	"	
<b>Tert-amyl methyl ether</b>	<b>200</b>		50	"	"	"	"	"	"	
Tert-butyl alcohol	ND		250	"	"	"	"	"	"	
Di-isopropyl ether	ND		50	"	"	"	"	"	"	

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**LL\_W -10\_121809\_02**  
**T901246-02(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		50	ug/l	25	9121806	12/18/09	12/28/09	EPA 8260B	
Methyl tert-butyl ether	ND		25	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			104 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			112 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			101 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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**LL\_W- 17A\_121809\_01**  
**T901246-03(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	75	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		83.9 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
<b>cis-1,2-Dichloroethene</b>	<b>2.1</b>	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W- 17A\_121809\_01**  
**T901246-03(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>13</b>		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.8</b>		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>1.1</b>		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>47</b>		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W- 17A\_121809\_01**  
**T901246-03(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			94.2 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			125 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			95.2 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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**LL\_W -17B\_121809\_01**  
**T901246-04(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND		50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C	
Surrogate 4-Bromofluorobenzene			82.8 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND		0.50	"	"	"	"	"	"	
Chlorobenzene	ND		1.0	"	"	"	"	"	"	
Chloroethane	ND		1.0	"	"	"	"	"	"	
Chloroform	ND		1.0	"	"	"	"	"	"	
Chloromethane	ND		1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	

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**LL\_W -17B\_121809\_01**  
**T901246-04(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>44</b>		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LL\_W -17B\_121809\_01**  
**T901246-04(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			90.9 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			134 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			90.4 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W -17C\_121809\_01**  
**T901246-05(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND		50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C	
<i>Surrogate 4-Bromofluorobenzene</i>			74.0 %	72.6-146		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND		0.50	"	"	"	"	"	"	
Chlorobenzene	ND		1.0	"	"	"	"	"	"	
Chloroethane	ND		1.0	"	"	"	"	"	"	
Chloroform	ND		1.0	"	"	"	"	"	"	
Chloromethane	ND		1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	

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Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:40

**LL\_W -17C\_121809\_01**  
**T901246-05(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LL\_W -17C\_121809\_01  
 T901246-05(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			87.6 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			143 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			89.8 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:40

**LL\_W -8\_121809\_01**  
**T901246-06(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	190	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		91.9 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND	1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:40

**LL\_W -8\_121809\_01**  
**T901246-06(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.51</b>		0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.70</b>		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W -8\_121809\_01**  
**T901246-06(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			92.5 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			130 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			93.9 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_MW- 104A\_121809\_01**  
**T901246-07(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND		50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C	
Surrogate 4-Bromofluorobenzene			86.2 %	72.6-146		"	"	"	"	

**Metals by SM 3500 Series Methods**

Ferrous Iron	ND		0.100	mg/l	1	9121906	12/19/09	12/29/09	EPA6010/S M3500	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND		0.50	"	"	"	"	"	"	
Chlorobenzene	ND		1.0	"	"	"	"	"	"	
Chloroethane	ND		1.0	"	"	"	"	"	"	
Chloroform	ND		1.0	"	"	"	"	"	"	
Chloromethane	ND		1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	"	

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 949.297.5027 Fax

Murex  
 2640 Walnut Ave. Unit F  
 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
 02/02/10 06:40

**LL\_MW- 104A\_121809\_01**  
**T901246-07(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	4.1		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND		1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	

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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_MW- 104A\_121809\_01**  
**T901246-07(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

Tert-amyl methyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			91.6 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			130 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			93.2 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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**Anions by EPA Method 300.0**

Sulfate as SO4	97.2		5.00	mg/l	10	9121809	12/18/09	12/22/09	EPA 300.0	
Nitrate as NO3	0.791		0.500	"	1	"	"	"	"	

**RSK-175**

Methane	1040		6.00	ug/l	6	9121815	12/18/09	12/22/09	RSK-175	
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Weck Laboratories, Inc

**Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods**

Alkalinity as CaCO3	790		2.0	mg/l	1	W9L0947	12/21/09	12/22/09	SM 2320B	
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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W -7\_121809\_01**  
**T901246-08(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
C6-C12 (GRO)	50		50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene			88.6 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND		1.0	ug/l	1	9121806	12/18/09	12/30/09	EPA 8260B
Bromochloromethane	ND		1.0	"	"	"	"	"	"
Bromodichloromethane	ND		1.0	"	"	"	"	"	"
Bromoform	ND		1.0	"	"	"	"	"	"
Bromomethane	ND		1.0	"	"	"	"	"	"
n-Butylbenzene	ND		1.0	"	"	"	"	"	"
sec-Butylbenzene	ND		1.0	"	"	"	"	"	"
tert-Butylbenzene	ND		1.0	"	"	"	"	"	"
Carbon tetrachloride	ND		0.50	"	"	"	"	"	"
Chlorobenzene	ND		1.0	"	"	"	"	"	"
Chloroethane	ND		1.0	"	"	"	"	"	"
Chloroform	ND		1.0	"	"	"	"	"	"
Chloromethane	ND		1.0	"	"	"	"	"	"
2-Chlorotoluene	ND		1.0	"	"	"	"	"	"
4-Chlorotoluene	ND		1.0	"	"	"	"	"	"
Dibromochloromethane	ND		1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND		1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"
Dibromomethane	ND		1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"
<b>1,1-Dichloroethane</b>	<b>1.6</b>		1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND		0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND		1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND		1.0	"	"	"	"	"	"

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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**LL\_W -7\_121809\_01**  
**T901246-08(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/30/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
n-Propylbenzene	ND		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LL\_W -7\_121809\_01**  
**T901246-08(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/30/09	EPA 8260B	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			102 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			107 %	66.3-111		"	"	"	"	
<i>Surrogate Toluene-d8</i>			98.8 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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 Tustin CA, 9

Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

**Reported:**  
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**LL\_W -12\_121809\_01**  
**T901246-09(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	730	50	ug/l	1	9121615	12/18/09	12/19/09	EPA 8015C
Surrogate 4-Bromofluorobenzene		90.8 %	72.6-146		"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
<b>n-Butylbenzene</b>	<b>5.2</b>	1.0	"	"	"	"	"	"
<b>sec-Butylbenzene</b>	<b>3.0</b>	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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**LL\_W -12\_121809\_01**  
**T901246-09(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND		1.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
2,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>5.5</b>		1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.0	"	"	"	"	"	"	
Methylene chloride	ND		1.0	"	"	"	"	"	"	
Naphthalene	ND		1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>12</b>		1.0	"	"	"	"	"	"	
Styrene	ND		1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
Tetrachloroethene	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	"	
Trichloroethene	ND		1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
Vinyl chloride	ND		1.0	"	"	"	"	"	"	
Benzene	ND		0.50	"	"	"	"	"	"	
Toluene	ND		0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.8</b>		0.50	"	"	"	"	"	"	
m,p-Xylene	ND		1.0	"	"	"	"	"	"	
o-Xylene	ND		0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND		10	"	"	"	"	"	"	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	

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**LL\_W -12\_121809\_01**  
**T901246-09(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

Ethyl tert-butyl ether	ND		2.0	ug/l	1	9121806	12/18/09	12/22/09	EPA 8260B	
<b>Methyl tert-butyl ether</b>	<b>2.1</b>		1.0	"	"	"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>			96.5 %	77.1-110		"	"	"	"	
<i>Surrogate Dibromofluoromethane</i>			133 %	66.3-111		"	"	"	"	S-GC
<i>Surrogate Toluene-d8</i>			93.8 %	84.7-109		"	"	"	"	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Hexavalent Chromium	ND		1.00	ug/l	1	9121816	12/18/09	12/22/09	EPA 7199	
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121615 - EPA 5030 GC**

**Blank (9121615-BLK1)**

Prepared: 12/16/09 Analyzed: 12/19/09

Surrogate 4-Bromofluorobenzene	156			ug/l	200		78.0	72.6-146			
C6-C12 (GRO)	ND		50	"							

**LCS (9121615-BS1)**

Prepared: 12/16/09 Analyzed: 12/19/09

Surrogate 4-Bromofluorobenzene	168			ug/l	200		84.1	72.6-146			
C6-C12 (GRO)	5710		50	"	5500		104	75-125			

**LCS Dup (9121615-BSD1)**

Prepared: 12/16/09 Analyzed: 12/19/09

Surrogate 4-Bromofluorobenzene	169			ug/l	200		84.7	72.6-146			
C6-C12 (GRO)	5750		50	"	5500		105	75-125	0.758	20	

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**Metals by SM 3500 Series Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121906 - EPA 3010A</b>											
<b>Blank (9121906-BLK1)</b> Prepared: 12/19/09 Analyzed: 12/29/09											
Ferrous Iron	ND		0.100	mg/l							
<b>LCS (9121906-BS1)</b> Prepared: 12/19/09 Analyzed: 12/29/09											
Ferrous Iron	0.477		0.100	mg/l	0.526		90.6	80-120			
<b>Matrix Spike (9121906-MS1)</b> Source: T901246-07 Prepared: 12/19/09 Analyzed: 12/29/09											
Ferrous Iron	0.450		0.100	mg/l	0.526	ND	85.6	75-125			
<b>Matrix Spike Dup (9121906-MSD1)</b> Source: T901246-07 Prepared: 12/19/09 Analyzed: 12/29/09											
Ferrous Iron	0.455		0.100	mg/l	0.526	ND	86.5	75-125	1.08	20	

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121806 - EPA 5030 GCMS**

**Blank (9121806-BLK1)**

Prepared: 12/18/09 Analyzed: 12/22/09

Surrogate 4-Bromofluorobenzene	7.02			ug/l	8.00		87.8	77.1-110			
Surrogate Dibromofluoromethane	8.02			"	8.00		100	66.3-111			
Surrogate Toluene-d8	7.86			"	8.00		98.2	84.7-109			
Bromobenzene	ND		1.0	"							
Bromochloromethane	ND		1.0	"							
Bromodichloromethane	ND		1.0	"							
Bromoform	ND		1.0	"							
Bromomethane	ND		1.0	"							
n-Butylbenzene	ND		1.0	"							
sec-Butylbenzene	ND		1.0	"							
tert-Butylbenzene	ND		1.0	"							
Carbon tetrachloride	ND		0.50	"							
Chlorobenzene	ND		1.0	"							
Chloroethane	ND		1.0	"							
Chloroform	ND		1.0	"							
Chloromethane	ND		1.0	"							
2-Chlorotoluene	ND		1.0	"							
4-Chlorotoluene	ND		1.0	"							
Dibromochloromethane	ND		1.0	"							
1,2-Dibromo-3-chloropropane	ND		1.0	"							
1,2-Dibromoethane (EDB)	ND		1.0	"							
Dibromomethane	ND		1.0	"							
1,2-Dichlorobenzene	ND		1.0	"							
1,3-Dichlorobenzene	ND		1.0	"							
1,4-Dichlorobenzene	ND		1.0	"							
Dichlorodifluoromethane	ND		0.50	"							
1,1-Dichloroethane	ND		1.0	"							

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121806 - EPA 5030 GCMS**

**Blank (9121806-BLK1)**

Prepared: 12/18/09 Analyzed: 12/22/09

1,2-Dichloroethane	ND		0.50	ug/l							
1,1-Dichloroethene	ND		1.0	"							
cis-1,2-Dichloroethene	ND		1.0	"							
trans-1,2-Dichloroethene	ND		1.0	"							
1,2-Dichloropropane	ND		1.0	"							
1,3-Dichloropropane	ND		1.0	"							
2,2-Dichloropropane	ND		1.0	"							
1,1-Dichloropropene	ND		1.0	"							
cis-1,3-Dichloropropene	ND		0.50	"							
trans-1,3-Dichloropropene	ND		0.50	"							
Hexachlorobutadiene	ND		1.0	"							
Isopropylbenzene	ND		1.0	"							
p-Isopropyltoluene	ND		1.0	"							
Methylene chloride	ND		1.0	"							
Naphthalene	ND		1.0	"							
n-Propylbenzene	ND		1.0	"							
Styrene	ND		1.0	"							
1,1,2,2-Tetrachloroethane	ND		1.0	"							
1,1,1,2-Tetrachloroethane	ND		1.0	"							
Tetrachloroethene	ND		1.0	"							
1,2,3-Trichlorobenzene	ND		1.0	"							
1,2,4-Trichlorobenzene	ND		1.0	"							
1,1,2-Trichloroethane	ND		1.0	"							
1,1,1-Trichloroethane	ND		1.0	"							
Trichloroethene	ND		1.0	"							
Trichlorofluoromethane	ND		1.0	"							
1,2,3-Trichloropropane	ND		1.0	"							

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Project: Ceneco  
 Project Number: 1003.001  
 Project Manager: Jeremy Squire

Reported:  
 02/02/10 06:40

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121806 - EPA 5030 GCMS**

**Blank (9121806-BLK1)**

Prepared: 12/18/09 Analyzed: 12/22/09

1,3,5-Trimethylbenzene	ND		1.0	ug/l							
1,2,4-Trimethylbenzene	ND		1.0	"							
Vinyl chloride	ND		1.0	"							
Benzene	ND		0.50	"							
Toluene	ND		0.50	"							
Ethylbenzene	ND		0.50	"							
m,p-Xylene	ND		1.0	"							
o-Xylene	ND		0.50	"							
Tert-amyl methyl ether	ND		2.0	"							
Tert-butyl alcohol	ND		10	"							
Di-isopropyl ether	ND		2.0	"							
Ethyl tert-butyl ether	ND		2.0	"							
Methyl tert-butyl ether	ND		1.0	"							
Ethanol	ND		500	"							
C6-C12 (GRO)	ND		50	"							

**LCS (9121806-BS1)**

Prepared: 12/18/09 Analyzed: 12/22/09

Surrogate 4-Bromofluorobenzene	8.13			ug/l	8.00		102	77.1-110			
Surrogate Dibromofluoromethane	8.60			"	8.00		108	66.3-111			
Surrogate Toluene-d8	8.02			"	8.00		100	84.7-109			
Chlorobenzene	20.4		1.0	"	20.0		102	75-125			
1,1-Dichloroethene	22.0		1.0	"	20.0		110	75-125			
Trichloroethene	18.9		1.0	"	20.0		94.4	75-125			
Benzene	23.1		0.50	"	20.0		115	75-125			
Toluene	24.2		0.50	"	20.0		121	75-125			

**LCS Dup (9121806-BSD1)**

Prepared: 12/18/09 Analyzed: 12/22/09

Surrogate 4-Bromofluorobenzene	8.05			ug/l	8.00		101	77.1-110			
Surrogate Dibromofluoromethane	8.15			"	8.00		102	66.3-111			

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9121806 - EPA 5030 GCMS**

**LCS Dup (9121806-BSD1)**

Prepared: 12/18/09 Analyzed: 12/22/09

<i>Surrogate Toluene-d8</i>	8.00			ug/l	8.00		100	84.7-109			
Chlorobenzene	21.0		1.0	"	20.0		105	75-125	2.46	20	
1,1-Dichloroethene	20.3		1.0	"	20.0		102	75-125	8.17	20	
Trichloroethene	18.4		1.0	"	20.0		91.8	75-125	2.85	20	
Benzene	22.8		0.50	"	20.0		114	75-125	1.09	20	
Toluene	24.0		0.50	"	20.0		120	75-125	0.787	20	

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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121816 - General Preparation</b>											
<b>Blank (9121816-BLK1)</b> Prepared & Analyzed: 12/21/09											
Hexavalent Chromium	ND		1.00	ug/l							
<b>LCS (9121816-BS1)</b> Prepared & Analyzed: 12/21/09											
Hexavalent Chromium	25.9		1.00	ug/l	25.0		103	85-115			
<b>Matrix Spike (9121816-MS1)</b> Source: T901246-01 Prepared: 12/21/09 Analyzed: 12/22/09											
Hexavalent Chromium	21.6		1.00	ug/l	25.0	0.0950	85.9	85-115			
<b>Matrix Spike Dup (9121816-MSD1)</b> Source: T901246-01 Prepared: 12/21/09 Analyzed: 12/22/09											
Hexavalent Chromium	22.6		1.00	ug/l	25.0	0.0950	90.0	85-115	4.62	20	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**Anions by EPA Method 300.0 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121809 - General Preparation</b>											
<b>Blank (9121809-BLK1)</b> Prepared: 12/18/09 Analyzed: 12/22/09											
Sulfate as SO4	ND		0.500	mg/l							
Nitrate as NO3	ND		0.500	"							
<b>LCS (9121809-BS1)</b> Prepared: 12/18/09 Analyzed: 12/22/09											
Sulfate as SO4	9.79		0.500	mg/l	10.0		97.9	80-120			
Nitrate as NO3	10.5		0.500	"	11.1		95.0	80-120			
<b>Matrix Spike (9121809-MS1)</b> Source: T901237-01 Prepared: 12/18/09 Analyzed: 12/22/09											
Sulfate as SO4	166		5.00	mg/l	100	65.8	101	80-120			
Nitrate as NO3	132		5.00	"	111	19.9	101	80-120			
<b>Matrix Spike Dup (9121809-MSD1)</b> Source: T901237-01 Prepared: 12/18/09 Analyzed: 12/22/09											
Sulfate as SO4	165		5.00	mg/l	100	65.8	98.8	80-120	1.01	20	
Nitrate as NO3	127		5.00	"	111	19.9	96.0	80-120	4.02	20	



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Murex 2640 Walnut Ave. Unit F Tustin CA, 9	Project: Ceneco Project Number: 1003.001 Project Manager: Jeremy Squire	<b>Reported:</b> 02/02/10 06:40
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**RSK-175 - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9121815 - EPA 3810m Headspace</b>											
<b>Blank (9121815-BLK1)</b>					Prepared: 12/18/09 Analyzed: 12/22/09						
Methane	ND		1.00	ug/l							
<b>LCS (9121815-BS1)</b>					Prepared: 12/18/09 Analyzed: 12/22/09						
Methane	108			ug/l	120		89.9	75-125			
<b>LCS Dup (9121815-BSD1)</b>					Prepared: 12/18/09 Analyzed: 12/22/09						
Methane	109			ug/l	120		91.2	75-125	1.38	20	

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**Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control**  
**Weck Laboratories, Inc**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch W9L0947 - General Prep</b>											
<b>Blank (W9L0947-BLK1)</b>						Prepared: 12/21/09 Analyzed: 12/22/09					
Alkalinity as CaCO3	2.74		2.0	mg/l							B-06
<b>LCS (W9L0947-BS1)</b>						Prepared: 12/21/09 Analyzed: 12/22/09					
Alkalinity as CaCO3	35.6		2.0	mg/l	35.1		101	94-108			
<b>Duplicate (W9L0947-DUP1)</b>			<b>Source: 9L14002-01</b>			Prepared: 12/21/09 Analyzed: 12/22/09					
Alkalinity as CaCO3	174		2.0	mg/l		173			0.3	15	

Murex  
2640 Walnut Ave. Unit F  
Tustin CA, 9

Project: Ceneco  
Project Number: 1003.001  
Project Manager: Jeremy Squire

**Reported:**  
02/02/10 06:40

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- E-1 The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
- B-06 This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



# Appendix C

**Table 3**  
**TPHg Concentrations in Groundwater**

**Third Quarter 2009 Groundwater Monitoring Report**  
**Isola Law Group, LLP**  
**Former CENCO Refinery**  
**Santa Fe Springs, California**

<b>Well ID</b>	<b>Sample ID</b>	<b>Date</b>	<b>TPHg</b>
MW-104A	MW-104A-0709	7/24/2009	ND<50
MW-105	MW-105-0709	7/24/2009	<b>40 J</b>
	MW-105-0709-D		<b>48 J</b>
MW-106A	MW-106A-0709	7/27/2009	<b>280</b>
MW-107A	MW-107A-0709	7/28/2009	<b>1,800</b>
	MW-107A-0709-D		<b>1,400</b>
MW-201	MW-201-0709	7/29/2009	<b>830</b>
	MW-201-0709-D		<b>840</b>
MW-203	MW-203-0709	7/27/2009	<b>120</b>
MW-503B	MW-503B-0709	7/29/2009	<b>7,100</b>
MW-603	MW-603-0709	7/21/2009	<b>79</b>
W-1	W-1-0709	7/28/2009	<b>170</b>
W-4	W-4-0709	7/28/2009	<b>59</b>
W-7	W-7-0709	7/22/2009	ND<50
W-8	W-8-0709	7/22/2009	<b>190</b>
W-9	W-9-0709	7/24/2009	ND<50
W-10	W-10-0709	7/28/2009	<b>14,000</b>
W-12	W-12-0709	7/27/2009	<b>2,300</b>
W-14A	W-14A-0709	7/21/2009	<b>32 J</b>
W-14B	W-14B-0709	7/21/2009	<b>170</b>
W-14C	W-14C-0709	7/22/2009	<b>180 ZX</b>
W-15A	W-15A-0709	7/22/2009	<b>610</b>
W-15B	W-15B-0709	7/23/2009	<b>260</b>
W-15C	W-15C-0709	7/23/2009	<b>40 J</b>
W-16A	W-16A-0709	7/28/2009	<b>150</b>
W-16B	W-16B-0709	7/29/2009	<b>30 J</b>
W-16C	W-16C-0709	7/29/2009	<b>750</b>
W-17A	W-17A-0709	7/24/2009	<b>50</b>
W-17B	W-17B-0709	7/24/2009	ND<50
W-17C	W-17C-0709	7/27/2009	ND<50

**Notes:**

All units in micrograms per liter.

Detections are bolded.

TPHg was analyzed via U.S. Environmental Protection Agency Method 8015M.

No California Department of Public Health Maximum Contaminant Level exists for TPHg.

J = estimated concentration below reporting limit

ND< = not detected at the indicated reporting limit

TPHg = total petroleum hydrocarbons as gasoline

ZX = surrogate recovery outside acceptance limits due to sample matrix effects

**Table 4**  
**VOC and Oxygenate Concentrations in Groundwater**

Third Quarter 2009 Groundwater Monitoring Report  
Isola Law Group, LLP  
Former CENCO Refinery  
Santa Fe Springs, California

Well ID:	MW-104A	MW-105		MW-106A	MW-107A		MW-201		MW-203	MW-503B	
Sample ID:	MW-104A-0709	MW-105-0709	MW-105-0709-D	MW-106A-0709	MW-107A-0709	MW-107A-0709-D	MW-201-0709	MW-201-0709-D	MW-203-0709	MW-503B-0709	
Date:	7/24/2009	7/24/2009		7/27/2009	7/28/2009		7/29/2009		7/27/2009	7/29/2009	
Analyte	California MCL										
Benzene	1	ND<2.0	<b>0.33 J</b>	<b>0.31 J</b>	<b>3.7</b>	<b>94</b>	<b>95</b>	<b>40</b>	<b>49</b>	<b>0.56 J</b>	<b>470</b>
<i>n</i> -Butylbenzene	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>1.7 J</b>	<b>1.7 J</b>	ND<5.0	ND<5.0	ND<5.0	<b>17 J</b>
<i>sec</i> -Butylbenzene	NA	ND<5.0	ND<5.0	ND<5.0	<b>2.3 J</b>	<b>5.1</b>	<b>5.7</b>	<b>0.36 J</b>	<b>0.35 J</b>	ND<5.0	<b>20 J</b>
<i>tert</i> -Butylbenzene	NA	ND<5.0	ND<5.0	ND<5.0	<b>0.79 J</b>	<b>0.71 J</b>	<b>0.85 J</b>	ND<5.0	ND<5.0	ND<5.0	<b>1.6 J</b>
Chlorobenzene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10
Chloroethane	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25
Chloromethane	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>1.4 J</b>	ND<5.0	ND<5.0	ND<25
1,1-Dichloroethane	5	ND<2.0	<b>2.3</b>	<b>2.2</b>	<b>0.65 J</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.59 J</b>	ND<10
1,2-Dichloroethane	0.5	ND<2.0	<b>0.66 J</b>	<b>0.64 J</b>	ND<2.0	ND<2.0	ND<2.0	<b>1.3 J</b>	<b>1.3 J</b>	ND<2.0	<b>2.7 J</b>
1,1-Dichloroethene	6	ND<5.0	<b>3.6 J</b>	<b>3.4 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25
<i>cis</i> -1,2-Dichloroethene	6	<b>4.1</b>	<b>5.0</b>	<b>4.8</b>	<b>3.7</b>	<b>7.0</b>	<b>7.4</b>	<b>5.2</b>	<b>5.4</b>	<b>9.3</b>	<b>4.9 J</b>
<i>trans</i> -1,2-Dichloroethene	10	<b>0.45 J</b>	<b>1.4 J</b>	<b>1.4 J</b>	<b>1.7 J</b>	<b>8.4</b>	<b>8.7</b>	ND<2.0	ND<2.0	<b>1.3 J</b>	ND<10
1,2-Dichloropropane	5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10
Ethylbenzene	300	ND<2.0	ND<2.0	ND<2.0	<b>0.33 J</b>	<b>13</b>	<b>12</b>	<b>1.8 J</b>	<b>2.8</b>	ND<2.0	<b>63</b>
Isopropylbenzene	NA	ND<2.0	ND<2.0	ND<2.0	<b>12</b>	<b>37</b>	<b>37</b>	<b>1.3 J</b>	<b>1.5 J</b>	ND<2.0	<b>150</b>
<i>p</i> -Isopropyltoluene	NA	ND<2.0	ND<2.0	ND<2.0	<b>0.62 J</b>	<b>0.44 J</b>	<b>0.42 J</b>	<b>0.40 J</b>	<b>0.49 J</b>	ND<2.0	<b>1.8 J</b>
Methylene Chloride	5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>1.3 J</b>	<b>1.2 J</b>	ND<5.0	ND<25
Naphthalene	NA	ND<5.0	ND<5.0	ND<5.0	<b>0.52 J</b>	<b>7.5</b>	<b>4.7 J</b>	<b>1.0 J</b>	ND<5.0	ND<5.0	<b>38</b>
<i>n</i> -Propylbenzene	NA	ND<2.0	ND<2.0	ND<2.0	<b>6.7</b>	<b>36</b>	<b>33</b>	<b>1.2 J</b>	<b>1.0 J</b>	ND<2.0	<b>290</b>
Tetrachloroethene	5	ND<2.0	<b>6.0</b>	<b>5.8</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10
Toluene	150	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.90 J</b>	<b>0.93 J</b>	<b>0.87 J</b>	<b>1.2 J</b>	ND<2.0	<b>30</b>
Trichloroethene	5	<b>0.53 J</b>	<b>24</b>	<b>24</b>	ND<2.0	<b>2.8</b>	<b>2.7</b>	ND<2.0	ND<2.0	ND<2.0	ND<10
Trichlorofluoromethane	150	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<25
1,2,4-Trimethylbenzene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.69 J</b>	<b>0.70 J</b>	ND<2.0	<b>0.26 J</b>	ND<2.0	ND<10
1,3,5-Trimethylbenzene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>1.5 J</b>	<b>1.4 J</b>	<b>0.34 J</b>	<b>0.38 J</b>	ND<2.0	<b>3.8 J</b>
Vinyl Chloride	0.5	ND<5.0	<b>0.54 J</b>	<b>0.57 J</b>	<b>7.8</b>	<b>0.48 J</b>	ND<5.0	<b>0.65 J</b>	<b>0.70 J</b>	<b>3.3 J</b>	<b>22 J</b>
<i>p/m</i> -Xylenes	1,750	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>49</b>	<b>42</b>	<b>2.7</b>	<b>3.6</b>	ND<2.0	<b>19</b>
<i>o</i> -Xylene	1,750	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.58 J</b>	<b>0.69 J</b>	ND<2.0	ND<2.0	ND<2.0	<b>1.5 J</b>
Xylenes, total	1,750	ND<4.0	ND<4.0	ND<4.0	ND<4.0	<b>49</b>	<b>43</b>	<b>2.9 J</b>	<b>3.8 J</b>	ND<4.0	<b>20</b>
Diisopropyl Ether (DIPE)	NA	ND<5.0	<b>0.41 J</b>	<b>0.42 J</b>	<b>0.43 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>0.35 J</b>	ND<25
Methyl- <i>tert</i> -Butyl Ether (MTBE)	13	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>9.3</b>	ND<25
<i>tert</i> -Butyl Alcohol (TBA)	NA	<b>15 J</b>	ND<50	ND<50	<b>19 J</b>	<b>58</b>	<b>49 J</b>	<b>27 J</b>	<b>32 J</b>	<b>36 J</b>	ND<250

**Table 4**  
**VOC and Oxygenate Concentrations in Groundwater**

Third Quarter 2009 Groundwater Monitoring Report  
Isola Law Group, LLP  
Former CENCO Refinery  
Santa Fe Springs, California

Well ID:	MW-603	W-1	W-4	W-7	W-8	W-9	W-10	W-12	W-14A	W-14B	W-14C
Sample ID:	MW-603-0709	W-1-0709	W-4-0709	W-7-0709	W-8-0709	W-9-0709	W-10-0709	W-12-0709	W-14A-0709	W-14B-0709	W-14C-0709
Date:	7/21/2009	7/28/2009	7/28/2009	7/22/2009	7/22/2009	7/24/2009	7/28/2009	7/27/2009	7/21/2009	7/21/2009	7/22/2009
Analyte	California MCL										
Benzene	1	ND<2.0	<b>3.0</b>	ND<2.0	<b>0.36 J</b>	<b>0.52 J</b>	ND<2.0	<b>5,500</b>	ND<2.0	ND<2.0	<b>1.3 J</b>
<i>n</i> -Butylbenzene	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>7.6 J</b>	<b>1.5 J</b>	ND<5.0	ND<5.0
<i>sec</i> -Butylbenzene	NA	ND<5.0	<b>0.40 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>7.8 J</b>	<b>1.6 J</b>	ND<5.0	<b>0.43 J</b>
<i>tert</i> -Butylbenzene	NA	ND<5.0	<b>0.67 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	ND<5.0
Chlorobenzene	NA	ND<2.0	<b>0.44 J</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	ND<2.0
Chloroethane	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	ND<5.0
Chloromethane	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethane	5	<b>4.3</b>	<b>0.76 J</b>	<b>0.41 J</b>	<b>1.5 J</b>	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	<b>1.0 J</b>
1,2-Dichloroethane	0.5	<b>1.8 J</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	<b>0.29 J</b>
1,1-Dichloroethene	6	<b>55</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	<b>9.1</b>
<i>cis</i> -1,2-Dichloroethene	6	<b>19</b>	ND<2.0	<b>7.8</b>	ND<2.0	ND<2.0	<b>3.0</b>	ND<40	<b>2.8</b>	<b>0.52 J</b>	<b>5.3</b>
<i>trans</i> -1,2-Dichloroethene	10	<b>2.2</b>	<b>1.4 J</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	<b>1.4 J</b>
1,2-Dichloropropane	5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	ND<2.0
Ethylbenzene	300	ND<2.0	ND<2.0	ND<2.0	<b>0.28 J</b>	<b>0.40 J</b>	ND<2.0	<b>500</b>	<b>1.2 J</b>	ND<2.0	ND<2.0
Isopropylbenzene	NA	ND<2.0	<b>1.5 J</b>	<b>0.71 J</b>	ND<2.0	ND<2.0	ND<2.0	<b>49</b>	<b>1.7 J</b>	ND<2.0	<b>0.29 J</b>
<i>p</i> -Isopropyltoluene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	ND<2.0
Methylene Chloride	5	ND<5.0	ND<5.0	ND<5.0	<b>0.99 J</b>	<b>1.0 J</b>	ND<5.0	ND<100	ND<5.0	ND<5.0	<b>0.97 J</b>
Naphthalene	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>280</b>	ND<5.0	ND<5.0	ND<5.0
<i>n</i> -Propylbenzene	NA	ND<2.0	<b>0.62 J</b>	<b>0.37 J</b>	ND<2.0	ND<2.0	ND<2.0	<b>78</b>	<b>3.1</b>	ND<2.0	ND<2.0
Tetrachloroethene	5	<b>100</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	ND<2.0	<b>10</b>
Toluene	150	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.89 J</b>	ND<2.0	<b>130</b>	ND<2.0	ND<2.0	ND<2.0
Trichloroethene	5	<b>89</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<40	ND<2.0	<b>0.82 J</b>	<b>45</b>
Trichlorofluoromethane	150	<b>0.68 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	ND<5.0
1,2,4-Trimethylbenzene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.27 J</b>	ND<2.0	<b>250</b>	<b>0.23 J</b>	ND<2.0	ND<2.0
1,3,5-Trimethylbenzene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>41</b>	ND<2.0	ND<2.0	ND<2.0
Vinyl Chloride	0.5	<b>1.1</b>	<b>8.7</b>	<b>1.9 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<100	<b>1.3 J</b>	ND<5.0	ND<5.0
<i>p/m</i> -Xylene	1,750	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>980</b>	ND<2.0	ND<2.0	ND<2.0
<i>o</i> -Xylene	1,750	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>21 J</b>	ND<2.0	ND<2.0	ND<2.0
Xylenes, total	1,750	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0	<b>1,000</b>	ND<4.0	ND<4.0	ND<4.0
Diisopropyl Ether (DIPE)	NA	ND<5.0	<b>0.46 J</b>	<b>0.36 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	<b>0.34 J</b>
Methyl- <i>tert</i> -Butyl Ether (MTBE)	13	ND<5.0	<b>0.56 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	<b>0.46 J</b>	ND<5.0	ND<5.0
<i>tert</i> -Butyl Alcohol (TBA)	NA	ND<50	<b>29 J</b>	<b>36 J</b>	ND<50	ND<50	<b>20 J</b>	ND<1,000	<b>31 J</b>	<b>11 J</b>	ND<50

**Table 4**  
**VOC and Oxygenate Concentrations in Groundwater**

Third Quarter 2009 Groundwater Monitoring Report  
Isola Law Group, LLP  
Former CENCO Refinery  
Santa Fe Springs, California

Well ID:	W-15A	W-15B	W-15C	W-16A	W-16B	W-16C	W-17A	W-17B	W-17C	
Sample ID:	W-15A-0709	W-15B-0709	W-15C-0709	W-16A-0709	W-16B-0709	W-16C-0709	W-17A-0709	W-17B-0709	W-17C-0709	
Date:	7/22/2009	7/23/2009	7/23/2009	7/28/2009	7/29/2009	7/29/2009	7/24/2009	7/24/2009	7/27/2009	
Analyte	California MCL									
Benzene	1	<b>2.9</b>	<b>26</b>	<b>0.47 J</b>	<b>2.5</b>	<b>0.99 J</b>	<b>6.8</b>	<b>0.36 J</b>	ND<2.0	ND<2.0
<i>n</i> -Butylbenzene	NA	ND<5.0	<b>0.65 J</b>	ND<5.0						
<i>sec</i> -Butylbenzene	NA	<b>0.82 J</b>	<b>0.86 J</b>	ND<5.0	<b>0.53 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
<i>tert</i> -Butylbenzene	NA	ND<5.0								
Chlorobenzene	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>1.8 J</b>	ND<2.0	ND<2.0	ND<2.0
Chloroethane	NA	ND<5.0	ND<5.0	ND<5.0	<b>1.4 J</b>	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloromethane	NA	ND<5.0								
1,1-Dichloroethane	5	ND<2.0	ND<2.0	<b>0.61 J</b>	<b>0.51 J</b>	ND<2.0	<b>3.7</b>	ND<2.0	ND<2.0	ND<2.0
1,2-Dichloroethane	0.5	ND<2.0	ND<2.0	<b>0.28 J</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1,1-Dichloroethene	6	ND<5.0	ND<5.0	<b>0.68 J</b>	ND<5.0	ND<5.0	<b>0.49 J</b>	<b>2.0 J</b>	ND<5.0	ND<5.0
<i>cis</i> -1,2-Dichloroethene	6	ND<2.0	ND<2.0	<b>2.8</b>	ND<2.0	<b>0.66 J</b>	<b>10</b>	<b>5.4</b>	<b>0.87 J</b>	<b>1.2 J</b>
<i>trans</i> -1,2-Dichloroethene	10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.88 J</b>	<b>3.0</b>	<b>1.5 J</b>	ND<2.0	ND<2.0
1,2-Dichloropropane	5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.54 J</b>	ND<2.0	ND<2.0	ND<2.0
Ethylbenzene	300	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	<b>0.41 J</b>	ND<2.0	ND<2.0	ND<2.0
Isopropylbenzene	NA	<b>4.7</b>	<b>7.0</b>	ND<2.0	<b>1.7 J</b>	ND<2.0	ND<2.0	<b>0.45 J</b>	ND<2.0	ND<2.0
<i>p</i> -Isopropyltoluene	NA	ND<2.0								
Methylene Chloride	5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	<b>1.5 J</b>	<b>1.7 J</b>	ND<5.0	ND<5.0	ND<5.0
Naphthalene	NA	ND<5.0								
<i>n</i> -Propylbenzene	NA	<b>6.8</b>	<b>9.5</b>	ND<2.0	<b>0.55 J</b>	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Tetrachloroethene	5	ND<2.0								
Toluene	150	ND<2.0	<b>0.43 J</b>	ND<2.0						
Trichloroethene	5	ND<2.0	ND<2.0	<b>2.0</b>	ND<2.0	ND<2.0	ND<2.0	<b>0.99 J</b>	<b>1.0 J</b>	<b>0.46 J</b>
Trichlorofluoromethane	150	ND<5.0								
1,2,4-Trimethylbenzene	NA	ND<2.0								
1,3,5-Trimethylbenzene	NA	ND<2.0								
Vinyl Chloride	0.5	ND<5.0	ND<5.0	ND<5.0	<b>0.75 J</b>	ND<5.0	<b>2.4 J</b>	ND<5.0	ND<5.0	ND<5.0
<i>p/m</i> -Xylene	1,750	ND<2.0	<b>1.3 J</b>	ND<2.0						
<i>o</i> -Xylene	1,750	ND<2.0								
Xylenes, total	1,750	ND<4.0	<b>1.5 J</b>	ND<4.0						
Diisopropyl Ether (DIPE)	NA	ND<5.0								
Methyl- <i>tert</i> -Butyl Ether (MTBE)	13	<b>110</b>	<b>18</b>	ND<5.0						
<i>tert</i> -Butyl Alcohol (TBA)	NA	<b>190</b>	<b>96</b>	<b>15 J</b>	<b>25 J</b>	<b>8.2 J</b>	<b>8.7 J</b>	<b>49 J</b>	<b>16 J</b>	<b>22 J</b>

**Notes:**

All units in micrograms per liter.

Detections are bolded, and only detected analytes are shown on table.

Shaded results are equal to or exceed the California MCL.

Volatile organic compounds (VOCs) and oxygenates were analyzed using U.S. Environmental Protection Agency Method 8260B.

J = estimated concentration below reporting limit

MCL = California Department of Public Health Maximum Contaminant Level

NA = no MCL available

ND< = not detected at the indicated reporting limit



TABLE D2-A  
 HISTORICAL GROUNDWATER DATA  
 TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
 FORMER CENCO REFINERY  
 SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichloro- difluoro- methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	
	7/1/2004	0.27	--	--	ND<0.005	ND<0.1	0.0092	0.0005J	0.00075	ND<0.001	ND<0.0005	ND<0.0005	ND<0.0005	--	ND<0.005	--	0.024	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
Operational Area 2: East Tank Farm Area																										
MW-103	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1988	--	--	--	--	--	0.97	0.074	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	0.3	ND<0.005	ND<0.005	0.008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	0.37	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-103	3/1/1989	--	--	--	--	--	0.94	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	0.7	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	1	0.03	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	0.21	ND<0.005	0.005	0.023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	0.88	ND<0.005	ND<0.005	0.055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	0.2	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	0.35	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	ND<0.005	0.008	0.019	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	4.8	ND<0.25	ND<0.25	ND<0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	4.8	ND<0.25	ND<0.25	ND<0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1993	--	--	--	--	--	1.3	0.088	0.062	0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	1.4	ND<0.25	ND<0.25	ND<0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	0.24	ND<0.01	ND<0.01	0.011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	0.16	ND<0.005	ND<0.005	ND<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	0.9	ND<0.05	ND<0.05	ND<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	4.1	--	ND<0.5	--	--	0.41	0.0041	0.0026	0.077	--	--	--	--	--	--	ND<0.0005	--	--	--	0.0022	0.0021	ND<0.0005	ND<0.0005	--	
	7/31/1996	2.7	--	--	ND<0.01	--	0.34	0.005	ND<0.0005	0.012	--	--	ND<0.0003	--	ND<0.0003	--	0.0007	0.0012	--	0.011	0.017	0.0017	ND<0.0003	ND<0.0003	--	
	12/17/1996	2.4	--	--	ND<0.01	--	0.2	ND<0.005	ND<0.005	ND<0.01	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	0.027	ND<0.005	ND<0.005	ND<0.005	0.006	
	1/21/1998	1.3	--	--	ND<0.005	--	0.23	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.011	
	8/19/1998	1.6	--	--	ND<0.005	--	0.22	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.011	
	1/27/1999	1.9	--	--	ND<0.005	--	0.11	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0071	
	7/19/1999	1.8	--	--	ND<0.001	--	0.061	0.0011	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0012	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0088	
	1/12/2000	1.5	--	--	0.0012	--	0.081	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.003	ND<0.001	--	ND<0.001	ND<0.001	0.004	ND<0.001	ND<0.001	0.0063	
	8/4/2000	0.52	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0029	ND<0.001	--	ND<0.001	ND<0.001	0.0015	ND<0.001	ND<0.001	0.0035	
	2/9/2001	0.65	--	--	ND<0.001	--	0.00087	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0024	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0047	
	7/25/2001	1.3	--	--	0.0025	--	0.041	ND<0.001	ND<0.001	0.0027	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0025	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0041	
	5/8/2002	0.2	--	--	ND<0.001	53	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0013	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	
	9/25/2002	0.69	--	--	0.0014	40	0.04	ND<0.001	ND<0.001	0.0013	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0016	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0067	
MW-202	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	7.7	ND<0.5	2.6	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1995	--	--	--	--	--	0.4	0.007	0.029	0.042	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	0.5	0.01	0.048	0.042	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1995	6.5	--	--	--	--	0.33	0.021	0.051	0.074	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	4.8	--	--	0.062	--	0.64	0.015	ND<0.0005	0.032	--	--	ND<0.0003	--	ND<0.0003	--	0.002	ND<0.0003	--	0.0057	0.00054	0.00058	ND<0.0003	0.0004	--	
	12/17/1996	7.4	--	--	ND<0.02	--	0.89	ND<0.05	ND<0.05	ND<0.1	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.055	
	1/21/1998	1.6	--	--	ND<0.005	--	0.45	ND<0.005	0.019	0.021	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.057	
	8/18/1998	3.1	--	--	ND<0.005	--	0.28	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.049	
	1/27/1999	2.3	--	--	ND<0.005	--	0.076	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.067	
	7/19/1999	2.3	--	--	ND<0.002	--	0.036	0.0021	0.0037	0.0024	--	--	ND<0.002	ND<0.002	ND<0.002	--	0.0033	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	ND<0.002	ND<0.002	0.062	
	1/11/2000	2.4	--	--	0.0012	--	0.049	ND<0.001	0.0024	0.0023	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0019	ND<0.001	--	ND<0.001	0.0022	ND<0.0005	ND<0.001	ND<0.001	0.046	
	8/2/2000	1.4	--	--	ND<0.001	--	0.041	ND<0.001	ND<0.001	0.0018	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0046	ND<0.001	--	ND<0.001	0.011	ND<0.0005	ND<0.001	ND<0.001	0.035	
	2/7/2000	1.1	--	--	ND<0.001	--	0.025	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0023	ND<0.001	--	ND<0.001	0.0073	ND<0.0005	ND<0.001	ND<0.001	0.0099	
	7/24/2001	1.1	--	--	ND<0.001	--	0.038	ND<0.001	ND<0.001	0.0018	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	0.0018	ND<0.0005	ND<0.001	ND<0.001	0.0061	
	5/8/2002	1.4	--	--	0.016	66	0.33	0.0029	0.0021	0.0038	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	0.001					

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethyl- benzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichloro- difluoro- methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB
	9/1/1992	--	--	--	--	--	0.09	0.02	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	2.7	3.7	ND<0.005	1.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	--	--	--	--	--	0.13	0.028	0.021	0.193	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	0.78	ND<0.05	ND<0.05	ND<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	0.78	ND<0.05	ND<0.05	ND<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	5.5	0.63	0.19	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	5	0.077	0.12	0.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	6.9	4.7	0.65	3.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	12000	--	ND<5	--	--	0.88	0.67	0.24	0.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1996	14	--	--	0.032	--	1.4	1.3	0.52	1.7	--	--	ND<0.001	--	ND<0.001	--	0.0029	ND<0.001	--	ND<0.001	0.0033	0.0072	ND<0.001	ND<0.001	--
	12/17/1996	2.1	--	--	ND<0.2	--	0.75	0.058	ND<0.05	ND<0.1	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
	1/21/1998	6	--	--	0.0051	--	2.3	0.079	0.21	0.5	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.012
MW-204	8/21/1998	11	--	--	ND<0.05	--	5.1	0.51	0.52	1.73	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	0.15	ND<0.05	ND<0.05	ND<0.05
	1/28/1999	10	--	--	ND<0.05	--	3.3	0.11	0.47	1.84	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
	1/28/1999DUP	10	--	--	0.0052	--	3.1	0.12	0.53	2.08	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.018
	7/19/1999	1.9	--	--	0.027	--	0.56	ND<0.01	0.11	0.23	--	--	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.01
	1/11/2000	2.1	--	--	ND<0.01	--	0.27	ND<0.01	ND<0.01	0.014	--	--	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.01	ND<0.01	ND<0.01
	8/3/2000	1.3	--	--	ND<0.005	--	0.4	ND<0.005	0.012	0.01	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.0025	ND<0.005	ND<0.005	0.0082
	2/8/2001	1.2	--	--	ND<0.001	--	0.055	0.0014	ND<0.001	0.0015	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0014
	7/24/2001	1.2	--	--	0.0016	--	0.2	ND<0.001	0.012	0.0048	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0015	ND<0.001	--	ND<0.001	0.0047	ND<0.0005	ND<0.001	ND<0.001	0.0013
	5/9/2002	1.4	--	--	ND<0.002	170	0.25	0.037	0.12	0.289	--	--	ND<0.002	ND<0.002	ND<0.002	ND<2	0.0027	ND<0.002	--	ND<0.002	0.0035	ND<0.001	ND<0.002	ND<0.002	0.0057
	9/26/2002	0.56	--	--	ND<0.002	200	0.067	0.0025	0.019	0.0555	--	--	ND<0.002	ND<0.002	ND<0.002	ND<2	0.0036	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	ND<0.002	ND<0.002	0.005
	6/30/2004	0.26	--	--	ND<0.005	0.15	0.03	ND<0.005	0.0076	0.0065	ND<0.0005	0.006	ND<0.005	--	ND<0.005	--	0.004J	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.002J
W-7	8/4/2000	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.0005	ND<0.0005	ND<0.0001	--	ND<0.0001	0.0012	ND<0.001	ND<0.001	ND<0.001	ND<0.001
	2/8/2001	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001
	7/26/2001	ND<0.1	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001
	5/7/2002	ND<0.1	--	--	ND<0.001	ND<10	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001
	9/24/2002	ND<0.1	--	--	ND<0.001	ND<10	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001
Operational Area 3: Processing Area																									
MW-104	6/1/1988	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	9/1/1988	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1993	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1994	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1994	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	0.003	ND<0.002	ND<0.002	ND<0.002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	ND<0.5	--	--	--	--	0.003	0.0006	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	0.0027	--	--	--	--
	7/31/1996	ND<0.1	--	--	ND<0.01	--	0.0022	0.0018	ND<0.001	0.0027	--	--	ND<0.0003	--	ND<0.0003	--	0.0015	ND<0.0003	--	ND<0.0003	0.00058	0.00051	ND<0.0003	ND<	

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethyl- benzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichloro- difluoro- methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	
	7/25/2001	ND<0.1	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0039	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	
	5/7/2002	0.1	--	--	ND<0.001	31	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0043	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	
	9/24/2002	ND<0.1	--	--	ND<0.001	20	ND<0.0005	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0054	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	
	6/30/2004	ND<0.2	--	--	ND<0.005	0.03J	ND<0.005	ND<0.005	ND<0.005	ND<0.001	--	--	ND<0.005	--	ND<0.005	ND<0.005	0.0081	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	0.001J	ND<0.005	ND<0.005	
MW-504	12/1/1993	--	--	--	--	--	11	1.3	1.8	9.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1994	--	--	--	--	--	8.6	2.1	ND<0.5	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1994	--	--	--	--	--	5.8	0.7	0.84	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1995	--	--	--	--	--	5.2	1.1	1.2	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1995	--	--	--	--	--	8	1.3	2.2	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/1995	99	--	36.9	--	--	2.7	0.73	0.8	2.6	--	--	--	--	--	--	0.014	--	--	--	0.013	--	--	--	--	
	8/1/1996	80	--	--	0.37	--	3.4	1.4	0.96	3.7	--	--	ND<0.001	--	ND<0.001	--	0.02	ND<0.001	--	ND<0.001	0.004	0.02	ND<0.001	ND<0.001	--	
	12/18/1996	33	--	--	ND<0.05	--	6	2.8	1	3.3	--	--	ND<0.25	ND<0.25	ND<0.25	--	ND<0.25	ND<0.25	--	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	
	1/21/1998	30	--	--	ND<0.25	--	4.6	0.94	0.75	2.08	--	--	ND<0.25	ND<0.25	ND<0.25	--	ND<0.25	ND<0.25	--	ND<0.5	ND<0.25	ND<0.25	ND<0.25	ND<0.25		
	8/20/1998	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
	1/28/1999	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
	7/19/1999	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
	1/10/2000	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
	7/31/2000	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
MW-504	2/6/2001	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
	7/24/2001	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	
	9/23/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	
Operational Area 4: West Tank Farm Area																										
MW-101	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1988	--	--	--	--	--	0.62	ND<0.005	ND<0.005	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	0.31	0.01	0.034	0.013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	0.49	0.028	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	0.44	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	0.34	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	0.29	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	0.2	ND<0.005	ND<0.005	ND<0.025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	0.062	ND<0.005	0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	0.11	ND<0.005	0.11	<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	0.18	ND<0.004	0.18	ND<0.004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	2.4	--	ND<5	--	--	0.09	0.0059	0.0064	0.0029	--	--	--	--	--	--	0.045	--	--	--	0.0093	0.0018	0.067	ND<0.0005	--	
	7/31/1996	2.3	--	--	ND<0.01	--	0.13	0.014	0.13	0.014	--	--	ND<0.0003	--	ND<0.0003	--	0.35	ND<0.0003	--	ND<0.0003	0.0086	0.0016	0.052	ND<0.0003	--	
	12/17/1996	0.92	--	--	ND<0.002	--	ND<0.025	ND<0.05	ND<0.025	ND<0.05	--	--	ND<0.025	ND<0.025	ND<0.025	--	0.09	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	0.14	ND<0.025	ND<0.025	
	1/19/1998	1.4	--	--	ND<0.005	--	0.065	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.062	ND<0.005	--	ND<0.01	0.017	ND<0.005	ND<50	ND<0.005	ND<0.005	
	8/18/1998	3.2	--	--	--	--	0.14	ND<0.005	0.015	0.0067	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.052	ND<0.005	--	ND<0.01	ND<0.005	0.092	ND<0.005	0.0064		
	1/26/1999	3.2	--	--	ND<0.005	--	0.0684	ND<0.005	0.00708	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.0719	ND<0.005	--	ND<0.01	0.0139	ND<0.005	0.0979	ND<0.005	ND<0.005	
	7/19/1999	1.3	--	--	ND<0.002	--	0.022	ND<0.002	0.0024	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	--	0.057	ND<0.002	--	ND<0.002	0.018	ND<0.001	0.15	ND<0.002	ND<0.002	
	1/10/2000	0.69	--	--	ND<0.001	--	0.0092	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.025	ND<0.001	--	ND<0.001	0.012	0.0026	0.13	ND<0.001	ND<0.001	
	8/3/2000	ND<0.5	--	--	ND<0.002	--	0.024	ND<0.002	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	0.033	ND<0.002	--	ND<0.002	0.015	0.0036	0.092	ND<0.002	ND<0.002	
	2/9/2001	0.6	--	--	ND<0.005	--	0.026	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.021	ND<0.005	--	ND<0.005	0.0075	ND<0.0025	0.032	ND<0.005	ND<0.005	
	7/26/2001	0.69	--	--	ND<0.001	--	0.025	ND<0.001	0.0025	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.028	ND<0.001	--	ND<0.001	0.0082	ND<0.005	0.03	ND<0.001	0.0011	
	5/8/2002	0.58	--	--	ND<0.001	ND<10	0.017	ND<0.001	0.0013	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.016	ND<0.001	--	ND<0.001	0.0029	ND<0.0005	0.016	ND<0.001	ND<0.001	
	9/25/2002	0.57	--	--	ND<0.001	27	0.031	ND<0.001	0.0012	0.0011	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.014	ND<0.001	--	ND<0.001	0.003	ND<0.0005	0.018	ND<0.001	0.0012	
MW-105	12/21/1995	ND<0.5	--	ND<10	--	--	0.011	0.0017	0.00081	0.0037	--	--	--	--	--	--	0.0094	--	--	--	0.0045	0.0033	0.013	--	--	
	7/31/1996	0.65	--	--	ND<0.01	--	0.091	0.0018	0.002	0.0018	--	--	ND<0.003	--	ND<0.0003	--	0.0084	ND<0.0003	--	ND<0.0003	0.012	0.0014	0.02	ND<0.0003	--	
	12/16/1996	0.24	--	--	ND<0.002	--	0.014	ND<0.005	ND<0.005	ND<0.01	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.01	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	0.05	ND<0.005	ND<0.005	
	1/20/1998	0.51	--	--	ND<0.005	--	0.021	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.025	ND<0.005	--	ND<0.01	0.022	ND<0.005	0.14	ND<0.005	ND<0.005	
	8/18/1998	0.68	--	--	--	--	0.0536	ND<0.005	ND<0.005	ND<0.005	--</															

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichlorodifluoromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB
	12/1/1989	--	--	--	--	--	0.51	0.076	0.024	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	0.35	0.038	0.029	0.085	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	0.82	0.049	0.084	0.083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	0.34	0.015	0.02	0.073	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	0.24	0.012	0.007	0.055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	0.5	ND<0.005	ND<0.005	0.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	0.53	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	0.37	ND<0.005	ND<0.005	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	0.34	0.01	0.009	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	0.025	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	0.35	ND<0.005	ND<0.005	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	1.15	ND<0.005	ND<0.005	0.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	0.56	0.077	ND<0.05	0.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	1.3	0.066	0.5	0.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	0.29	ND<0.005	ND<0.005	ND<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	1.1	0.028	0.13	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	9	--	ND<5	--	--	0.44	0.042	0.12	0.094	--	--	--	--	--	--	0.044	--	--	--	0.0094	0.0044	0.087	0.00081	--
	7/31/1996	ND<0.1	--	--	ND<0.01	--	0.48	0.02	0.032	0.025	--	--	ND<0.0003	--	ND<0.0003	--	0.034	ND<0.0003	--	ND<0.0003	0.0094	0.0027	0.098	ND<0.0003	--
	12/17/1996	3.7	--	--	ND<0.01	--	0.11	0.012	0.096	0.121	--	--	ND<0.01	ND<0.01	ND<0.01	--	0.089	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	0.17	ND<0.01	0.021
	1/21/1998	2.6	--	--	ND<0.005	--	0.22	0.014	0.087	0.017	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.064	ND<0.005	--	ND<0.01	0.01	ND<0.005	0.1	ND<0.005	0.019
	1/21/1998DUP	2.1	--	--	ND<0.005	--	0.25	0.012	0.069	0.016	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.071	ND<0.005	--	ND<0.01	0.0099	ND<0.005	0.074	ND<0.005	0.018
	8/18/1998	2.6	--	--	--	--	0.44	0.0086	0.02	0.013	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.063	ND<0.005	--	ND<0.01	0.0063	ND<0.005	0.046	ND<0.005	0.0051
	7/19/1999	2.8	--	--	ND<0.005	--	0.16	0.029	0.069	0.0546	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.063	ND<0.005	--	ND<0.005	0.0093	ND<0.0025	0.061	ND<0.005	0.021
	1/12/2000	5.1	--	--	ND<0.006	--	0.52	0.014	0.053	0.016	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.043	ND<0.005	--	ND<0.005	ND<0.005	ND<0.0025	0.019	ND<0.005	0.016
MW-201	8/4/2000	2.9	--	--	ND<0.007	--	0.57	0.015	0.061	0.021	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.0005	0.076	ND<0.005	--	ND<0.005	ND<0.005	ND<0.0025	0.019	ND<0.005	0.012
	2/9/2001	2.2	--	--	ND<0.008	--	0.31	0.012	0.13	0.014	--	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	0.1	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	0.022	ND<0.01	0.026
	7/26/2001	3.2	--	--	ND<0.01	--	0.18	0.0096	0.056	0.0247	--	--	ND<0.01	ND<0.01	ND<0.01	--	0.057	ND<0.01	--	ND<0.01	0.023	ND<0.005	0.013	ND<0.01	0.014
	5/9/2002	1.8	--	--	0.0051	ND<20	0.12	0.0066	0.045	0.02	--	--	ND<0.002	ND<0.002	ND<0.002	ND<2	0.033	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	0.0064	ND<0.002	0.0088
	9/26/2002	0.89	--	--	ND<0.001	ND<10	0.011	0.011	0.068	0.0343	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.027	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	0.0072	ND<0.001	0.01
	6/30/2004	1.7	--	--	ND<0.005	ND<0.1	0.12	0.012	0.21E	0.071	0.013	0.058	ND<0.005	--	ND<0.005	ND<0.005	0.021	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.027
MW-205	6/1/1988	--	--	--	--	--	0.013	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	0.027	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	0.12	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	0.04	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	0.12	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	0.081	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	0.17	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	0.14	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	0.056	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	0.045	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	0.047	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	0.04	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	0.043	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	0.085	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	0.035	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	0.006	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	0.01	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	0.022	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	0.022	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	0.032	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	0.0053	ND<0.002	ND<0.002	ND<0.002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	2.1	--	ND<5	--	--	0.11	0.0013	0.018	0.037	--	--	--	--	--	--	0.051	--	--	--	0.0073	0.002	0.022	--	--
	7/31/1996	ND<0.1	--	--	ND<0.01	--	0.0051	ND<0.002	ND<0.002	ND<0.002	--	--	ND<0.0003	--	ND<0.0003	--	0.03	ND<0.0003	--	ND<0.0003	0.0028	ND<0.0003	0.014	ND<0.0003	--
	12/16/1996	0.27	--	--	0.002	--	ND<0.002	ND<0.002	ND<0.002	ND<0.004	--	--	ND<0.002	ND<0.002	ND<0.002	--	0.035	ND<0.002	--	ND<0.002	ND<0.002	ND<0.002	0.0071	ND<0.002	ND<0.002
	1/20/1998	0.19	--	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.027	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	0.0087	ND<0.005	ND<0.005
	8/21/1998	0.017	--	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.032	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	0.01	ND<0.005	ND<0.005
	1/26/1999	0.22	--	--	ND<0.005	--	0.00687	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005											

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichlorodifluoromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	
	9/25/2002	0.3	--	--	ND<0.001	4	0.024	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.01	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	
	6/30/2004	ND<0.2	--	--	ND<0.005	ND<0.1	0.003J	ND<0.005	ND<0.005	ND<0.001	ND<0.0005	ND<0.0005	ND<0.005	--	ND<0.005	--	0.0065	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
W-8	8/4/2000	ND<0.5	--	--	ND<0.001	--	0.0028	<0.0046	ND<0.001	ND<0.0029	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	
	2/6/2001	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
	7/26/2001	0.18	--	--	ND<0.001	--	0.00067	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	ND<0.001	
	5/7/2002	0.18	--	--	ND<0.001	ND<10	0.00051	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	ND<0.001	
	9/24/2002	ND<0.1	--	--	ND<0.001	ND<10	0.00064	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	ND<0.001	
	7/1/2004	0.39	--	--	ND<0.005	ND<0.1	0.0019J	0.0018	0.00072	0.00142	ND<0.0005	0.00092	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
Operational Area 5: Lakeland Property																										
MW-206	6/1/1988	--	--	--	--	--	5.8	2.4	2.1	4.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	9/1/1988	--	--	--	--	--	4.2	1	2	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	4.3	0.92	2.1	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	2.7	3.2	2.4	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	3.1	1.2	2.3	8.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	4.5	0.62	2.4	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	3.2	1	2	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	3.7	1.7	2.6	9.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	3.7	0.96	2	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	5.1	2.1	2.3	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	7.1	2.1	2.4	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	4.9	2.6	2.2	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	5.22	1.08	2.4	6.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	4.5	2.1	2	5.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	3.4	0.72	2.5	4.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	2	0.47	2.5	4.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	3.2	0.42	2.1	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	9.9	1.4	3.2	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	13	2	6	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	8.4	4.9	1.8	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	9	0.72	2	5.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-206	9/1/1995	--	--	--	--	--	6.2	0.8	1.6	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	12/13/1995	12	--	ND<5	--	--	0.11	0.016	0.032	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	33	--	--	0.51	--	0.57	0.11	0.42	0.49	--	--	ND<0.0003	--	ND<0.0003	--	0.02	ND<0.0003	--	ND<0.0003	0.0088	0.0058	0.022	ND<0.0003	--	
	12/18/1996	8.2	--	--	ND<0.02	--	2.2	ND<0.1	1.2	0.34	--	--	ND<0.1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	
	1/21/1998	13	--	--	ND<0.005	--	1.5	0.29	1.6	0.78	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.13	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	0.082	ND<0.005	0.085	
	8/20/1998	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
MW-501	3/1/1995	--	--	--	--	--	4.2	0.23	1	2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Destroyed	9/1/1995	--	--	--	--	--	2.4	0.27	ND<0.2	ND<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	69	--	19.9	--	--	1.6	0.1	0.88	2.2	--	--	--	--	--	--	0.0085	--	--	--	0.0016	0.0032	0.001	0.0013	--	
	7/31/1996	18	--	--	0.18	--	1.7	0.073	0.22	1.1	--	--	ND<0.0003	--	ND<0.0003	--	0.0072	ND<0.0003	--	ND<0.0003	0.00081	0.0013	ND<0.0003	0.001	--	
	12/18/1996	6.8	--	--	ND<0.01	--	1.2	ND<0.05	0.51	0.65	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.092	
	1/21/1998	0.95	--	--	ND<0.005	--	0.26	ND<0.005	0.011	0.023	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
	8/20/1998	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
	1/26/1999	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
MW-501A	7/19/1999	7.5	--	--	ND<0.025	--	1.3	ND<0.025	ND<0.025	0.025	--	--	ND<0.025	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	<0.013	<0.013	<0.013	0.041	
	1/13/2000	9.2	--	--	ND<0.01	--	1.6	0.018	ND<0.01	0.023	--	--	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.01	ND<0.01	0.034	
	8/2/2000	7.1	--	--	--	--	0.98	0.011	0.012	0.014	--	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.01	ND<0.01	0.085	
	2/7/2001	6.6	--	--	ND<0.01	--	0.68	ND<0.01	0.01	ND<0.01	--	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.01	ND<0.01	0.09	
	7/25/2001	5.7	--	--	0.085	--	0.14	ND<0.01	ND<0.01	ND<0.01	--	--	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	--	ND<0.01	0.013	ND<0.005	ND<0.01	0.011	0.098	
	5/8/2002	7	--	--	0.13	ND<20	0.69	0.0043	0.0068	0.0059	--	--	ND<0.002	ND<0.002	ND<0.002	ND<2	ND<0.002	ND<0.002	--	ND<0.002	0.0042	ND<0.001	ND<0.002	0.007	0.1	
	9/26/2002	6.5	--	--	0.57	ND<100	0.52	ND<0.01	ND<0.01	ND<0.02	--	--	ND<0.01	ND<0.01	ND<0.01	ND<10	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.01	ND<0.01	0.18	
MW-502	6/1/1988	--	--	--	--	--	0.95	0.079	0.062	0.016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	1.3	0.18	2.8	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--																				

**TABLE D2-A**  
**HISTORICAL GROUNDWATER DATA**  
**TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)**  
**FORMER CENCO REFINERY**  
**SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichlorodifluoromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	
	2/7/2001	18	--	--	6.5	--	5	0.082	0.23	ND<0.05	--	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.062	
	7/25/2001	24	--	--	18	--	6.5	0.17	0.4	0.513	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.062	
	5/9/2002	25	--	--	14	ND<2000	4.3	ND<0.2	0.39	0.23	--	--	ND<0.2	ND<0.2	ND<0.2	ND<200	ND<0.2	ND<0.2	--	ND<0.2	ND<0.2	ND<0.1	ND<0.2	ND<0.2	ND<0.2	
	9/26/2002	11	--	--	9.4	ND<1000	4	ND<0.1	0.54	0.23	--	--	ND<0.1	ND<0.1	ND<0.1	ND<100	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.05	ND<0.1	ND<0.1	ND<0.1	
MW-503	6/1/1988	--	--	--	--	--	0.6	0.14	0.34	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Abandoned	9/1/1988	--	--	--	--	--	0.8	0.28	0.3	0.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1988	--	--	--	--	--	1.5	0.57	0.38	0.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1989	--	--	--	--	--	0.4	0.19	0.36	0.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1989	--	--	--	--	--	0.6	0.34	0.63	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1989	--	--	--	--	--	0.99	0.55	0.2	0.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1989	--	--	--	--	--	0.27	0.18	0.18	0.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1990	--	--	--	--	--	0.31	0.14	0.14	0.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1990	--	--	--	--	--	0.034	0.024	0.11	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1990	--	--	--	--	--	0.17	0.11	0.14	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1990	--	--	--	--	--	2.1	1.3	0.1	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1991	--	--	--	--	--	0.9	0.65	0.25	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1991	--	--	--	--	--	1.04	0.7	0.33	1.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1992	--	--	--	--	--	3.3	0.75	0.34	1.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1993	--	--	--	--	--	2.9	0.4	ND<0.25	1.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1994	--	--	--	--	--	0.24	0.022	0.066	0.079	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1995	--	--	--	--	--	0.39	0.055	0.1	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1995	--	--	--	--	--	0.53	0.093	0.13	0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/1995	8.2	--	ND<5	--	--	0.34	0.079	0.19	0.2	--	--	--	--	--	--	0.038	--	--	--	0.015	0.0065	0.12	0.00072	--	
	7/31/1996	5.1	--	--	ND<0.01	--	0.15	0.049	0.025	0.084	--	--	ND<0.0003	--	ND<0.0003	--	0.036	ND<0.0003	--	ND<0.0003	0.015	0.0031	0.15	ND<0.0003	--	
	12/18/1996	4.6	--	--	ND<0.02	--	0.21	0.019	0.14	0.056	--	--	ND<0.01	ND<0.01	ND<0.01	--	0.04	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	0.32	ND<0.01	0.044	
	1/21/1998	3.1	--	--	ND<0.005	--	0.21	0.031	0.28	0.063	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.067	ND<0.005	--	ND<0.01	0.0096	ND<0.005	0.21	ND<0.005	0.053	
	8/19/1998	0.96	--	--	--	--	0.072	0.0079	0.053	0.0076	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.041	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	0.037	ND<0.005	0.011	
MW-503B	2/9/1999	10	--	--	--	--	0.97	ND<0.05	0.42	ND<0.05	--	--	ND<0.05	ND<0.05	ND<0.05	--	0.11	ND<0.05	--	ND<0.1	ND<0.05	ND<0.05	0.061	ND<0.05	0.05	
	7/19/1999	7.8	--	--	ND<0.02	--	0.63	ND<0.02	0.54	ND<0.02	--	--	ND<0.02	ND<0.02	ND<0.02	--	0.18	ND<0.02	--	ND<0.02	ND<0.02	ND<0.01	0.082	ND<0.02	0.073	
	1/14/2000	14	--	--	ND<0.02	--	1	0.032	0.87	0.14	--	--	ND<0.02	ND<0.02	ND<0.02	--	0.21	ND<0.02	--	ND<0.02	ND<0.02	ND<0.01	0.09	ND<0.02	0.083	
	8/4/2000	5.6	--	--	ND<0.01	--	0.61	0.019	0.5	0.035	--	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	0.14	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	0.036	ND<0.01	0.068	
	2/6/2001	5.8	--	--	ND<0.02	--	0.25	ND<0.02	0.32	0.041	--	--	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.084	ND<0.02	--	ND<0.02	ND<0.02	ND<0.01	0.025	ND<0.02	0.089	
	7/25/2001	5.7	--	--	ND<0.05	--	0.28	ND<0.05	0.23	ND<0.05	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.025	ND<0.05	ND<0.05	0.062	
	5/9/2002	4.5	--	--	ND<0.002	ND<20	0.081	0.0035	0.077	0.0345	--	--	ND<0.002	ND<0.002	0.0027	ND<2	0.023	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	0.005	ND<0.002	0.086	
	9/26/2002	3.3	--	--	ND<0.001	ND<10	0.036	0.0096	0.14	0.056	--	--	ND<0.001	ND<0.001	0.0017	ND<1	0.018	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	0.0011	ND<0.001	0.095	
	7/1/2004	5.9	--	--	ND<0.005	ND<0.1	0.16	0.037	0.089	0.0425	ND<0.0005	0.042	ND<0.005	--	ND<0.005	ND<0.005	0.003J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.016	
<b>Operational Area 6: Former AST Area at Walker Property</b>																										
W-3	11/1/1989	--	ND<1	--	--	--	0.019	0.0026	0.0076	0.013	--	--	ND<0.0005	ND<0.0005	ND<0.0005	--	--	--	--	--	0.0025(A)	ND<0.0005	ND<0.0005	ND<0.0005	--	
Abandoned	1/1/1990	--	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	0.0033	--	--	ND<0.001	ND<0.001	ND<0.0005	--	--	ND<0.002	--	ND<0.002	ND<0.002	ND<0.0005	ND<0.0005	ND<0.0005	--	
	3/1/1990	--	--	--	--	--	0.0053	0.0045	ND<0.0005	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.0005	--	--	ND<0.002	--	ND<0.002	ND<0.002	ND<0.0005	ND<0.0005	ND<0.0005	--	
	4/1/1990	--	--	--	--	--	0.0034	0.0045	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.0005	--	ND<0.005	ND<0.002	--	ND<0.002	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	--	
	12/18/1996	1.3	--	--	ND<0.01	--	0.59	ND<0.025	ND<0.025	ND<0.05	--	--	ND<0.025	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	
	1/13/1998	2.2	--	--	ND<0.005	--	0.28	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.027	
	8/20/1998	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
W-3A	1/13/1998	4300	--	--	ND<200	--	150	ND<6	35	ND<12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/20/1998	1.1	--	--	0.44	--	0.22	ND<0.025	0.033	ND<0.025	--	--	ND<0.025	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	--	ND<0.05	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	
	1/28/1999	0.69	--	--	0.34	--	0.16	ND<0.05	ND<0.05	ND<0.05	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	
	7/19/1999	5.4	--	--	0.38	--	0.12	ND<0.02	ND<0.02	ND<0.02	--	--	ND<0.02	ND<0.02	ND<0.02	--	ND<0.02	ND<0.02	--	ND<0.02	ND<0.02	ND<0.01	ND<0.02	ND<0.02	0.021	
	1/13/2000	14	--	--	0.21	--	0.14	ND<0.01	ND<0.01	ND<0.01	--	--	ND<0.01	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.005	ND<0.01	ND<0.01	ND<0.01	
	8/4/2000	3.4	--	--	0.22	--	0.17	ND<0.02	0.0084	ND<0.02	--	--	ND<0.02	ND<0.02	ND<0.02	0.0024	ND<0.02	ND<0.02	--	ND<0.02	ND<0.02	ND<0.001	ND<0.02	ND<0.02	0.014	
W-3A	2/8/2001	2.7	--	--	0.012	--	0.034	ND<0.001	0.0029	0.0031	--	--	ND<0.001	ND<0.001	ND<0.001	0.0024	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.011	
	7/26/2001	3.4	--	--	0.062	--	0.042	ND<0.001	0.0017	ND<0.01	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.021	
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
	9/25/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS
<b>Offsite Wells: Walker Property</b>																										
W-1	11/1/1989	--	ND<1	3.6	--	--	0.39	0.0039	0.0021	0.0064	--	--	ND<0.0005	ND<0.0006	ND<0.0005(A)	--	--	--	--	--	0.0035(A)	ND<0.0005(A)	<0.0006(A)	ND<0.0005(A)	--	
	3/1/1990	--	--	--	--	--	0.14	ND<0.005	ND<0.005	ND<0.02	--	--	ND<0.01	ND<0.01	ND<0.005	--	--	ND<0.02	--	ND<0.02	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	
	4/1/1990	--	--	--	--	--	0.2	0.012	0.012	0.0027	--	--	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.025	ND<0.02							

TABLE D2-A  
 HISTORICAL GROUNDWATER DATA  
 TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
 FORMER CENCO REFINERY  
 SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichlorodifluoromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB
	9/25/2002	0.21	--	--	0.0019	30	0.012	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0065	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0051
	7/1/2004	0.46	--	--	0.003J	ND<0.1	0.014	0.0028	0.0015	ND<0.001	ND<0.0005	ND<0.0005	ND<0.005	--	ND<0.005	ND<0.005	0.0093	ND<0.005	ND<0.005	--	0.001J	ND<0.005	ND<0.005	ND<0.005	ND<0.005
	10/6/2005	0.31	--	--	0.025	0.034	0.043	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	--	--	0.0012	--	--	--	--	ND<0.001	ND<0.0005	ND<0.001	--	0.0044
	2/15/2006	0.266	--	--	0.022	0.037	0.032	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.0043J
	8/3/2006	1.1	--	--	0.077	0.1	0.086	ND<0.002	ND<0.002	ND<0.004	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.005	ND<0.002	--	--	--	ND<0.002	ND<0.002	ND<0.005	--	0.018
W-2	11/1/1989	--	ND<1	--	--	--	0.078	0.0065	0.0065	0.005	--	--	ND<0.0005	ND<0.0005	ND<0.0005(A)	--	--	--	--	--	0.0043(A)	ND<0.0005(A)	ND<0.0005(A)	ND<0.0005(A)	--
Abandoned	3/1/1990	--	--	--	--	--	0.062	ND<0.0005	ND<0.0005	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.0005	--	--	ND<0.002	--	ND<0.002	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	--
	4/1/1990	--	--	--	--	--	0.083	0.026	0.004	0.0015	--	--	ND<0.005	ND<0.005	ND<0.0025	--	0.013	ND<0.001	--	ND<0.01	0.003	ND<0.0025	ND<0.0025	ND<0.0025	--
	12/18/1996	0.56	--	--	ND<0.002	--	0.056	ND<0.002	ND<0.002	ND<0.004	--	--	ND<0.002	ND<0.002	ND<0.002	--	0.013	ND<0.002	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	0.018
	1/14/1998	0.7	--	--	ND<0.005	--	0.085	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.017	ND<0.005	--	ND<0.001	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.015
	8/20/1998	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS
W-4	3/1/1990	--	--	--	--	--	0.12	ND<0.0005	0.019	ND<0.0005	--	--	ND<0.0005	ND<0.0005	ND<0.0005	--	0.0032	ND<0.0005	--	ND<0.0005	0.0083	ND<0.0005	ND<0.0005	ND<0.0005	--
	4/1/1990	--	--	--	--	--	0.028	0.0014	0.0048	0.0022	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.00081	ND<0.001	--	ND<0.0005	0.0022	ND<0.001	ND<0.001	ND<0.001	--
	12/18/1996	0.42	--	--	ND<0.01	--	0.08	ND<0.005	ND<0.005	ND<0.01	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.019
	1/14/1998	0.92	--	--	ND<0.005	--	0.12	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.028
	8/20/1998	0.5	--	--	0.018	--	0.057	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.026
	1/29/1999	0.46	--	--	0.02	--	0.055	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.018
	7/19/1999	0.71	--	--	ND<0.002	--	0.072	ND<0.002	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	ND<0.002	ND<0.002	0.014
	1/13/2000	0.66	--	--	ND<0.001	--	0.049	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0013	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0028
	8/3/2000	ND<0.5	--	--	--	--	0.047	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	0.0016	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0088
	2/8/2001	ND<0.5	--	--	ND<0.001	--	0.042	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	0.0016	ND<0.001	ND<0.001	--	ND<0.001	0.0011	0.00067	ND<0.001	ND<0.001	0.0075
	7/26/2001	0.32	--	--	ND<0.001	--	0.042	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	0.001	ND<0.0005	ND<0.001	ND<0.001	0.0083
	5/8/2002	0.25	--	--	ND<0.001	60	0.033	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	0.0013	ND<0.0005	ND<0.001	ND<0.001	0.0045
	9/25/2002	0.29	--	--	ND<0.001	45	0.062	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	2.6	ND<0.001	ND<0.001	--	ND<0.001	0.002	ND<0.0005	ND<0.001	ND<0.001	0.008
	7/1/2004	0.35	--	--	ND<0.005	ND<0.1	0.03	0.0026	0.0019	0.00116	ND<0.0005	0.00066	ND<0.005	--	ND<0.005	ND<0.005	0.003J	ND<0.005	ND<0.005	--	0.002J	ND<0.005	ND<0.005	ND<0.001	0.004
	10/6/2005	0.35	--	--	ND<0.001	0.047	0.031	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	--	--	ND<0.001	0.0064	--	--	--	0.0017	ND<0.0005	ND<0.001	--	0.0059
	2/15/2006	0.501	--	--	ND<0.001	0.038	0.043	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	0.0028J	--	--	--	0.0025J	ND<0.005	ND<0.005	--	0.012
	8/3/2006	2.8	--	--	ND<0.005	ND<0.05	0.0035	ND<0.002	ND<0.002	ND<0.004	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.005	0.0045	--	--	--	ND<0.002	ND<0.002	ND<0.005	--	0.0025
EW-1	11/1/1989	9.8	--	--	--	--	0.73	0.016	1.4(A)	1(A)	--	--	ND<0.005	ND<0.005	ND<0.005	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--
	3/1/1990	--	--	--	--	--	1.8	0.3	1.8	0.62	--	--	ND<0.05	ND<0.05	ND<0.025	--	--	ND<0.1	--	ND<0.1	ND<0.025	ND<0.025	ND<0.025	ND<0.025	--
	4/1/1990	--	--	--	--	--	1.3	0.29	1.6	2	--	--	ND<0.02	ND<0.02	ND<0.02	--	0.11	ND<0.002	--	ND<0.02	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--
	8/21/1998	5	--	--	ND<0.05	--	0.23	ND<0.05	0.63	0.17	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.2
	1/28/1999	7.9	--	--	ND<0.05	--	0.11	ND<0.05	0.54	0.17	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.17
	7/19/1999	8	--	--	ND<0.025	--	0.11	ND<0.025	1	0.34	--	--	ND<0.025	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	<0.013	ND<0.025	ND<0.025	0.2
	1/13/2000	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS
	7/31/2000	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS
	2/6/2001	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS
	7/26/2001	NS	NS	NS	NS	--	NS	NS	NS	NS	--	--	NS	NS	NS	--	NS	NS	--	NS	NS	NS	NS	NS	NS
	5/6/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS
	9/25/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS
<b>Offsite Wells: Metropolitan State Hospital</b>																									
MW-600	8/1/1990	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	2/20/1991	0.0502	--	--	--	--	18	9.2	1.3	9.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	3500	--	912	--	--	23	40	18	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1996	210	--	--	ND<0.01	--	14	15	3.5	20	--	--	ND<0.001	--	ND<0.001	--	0.0038	ND<0.001	--	ND<0.001	0.00036	0.0055	ND<0.001	ND<0.001	--
	12/19/1996	87	--	--	ND<0.01	--	14	15	1.8	9.1	--	--	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5			

TABLE D2-A  
 HISTORICAL GROUNDWATER DATA  
 TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)

FORMER CENCO REFINERY  
 SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethylbenzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichlorodifluoromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	
	2/7/2001	35	--	--	1.2	--	16	0.063	0.097	ND<0.05	--	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.025	ND<0.05	ND<0.05	0.057	
	7/24/2001	31	--	--	2.8	--	15	ND<0.1	0.11	ND<0.1	--	--	ND<0.1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.05	ND<0.1	ND<0.1	ND<0.1	
	5/9/2002	24	--	--	2.5	ND<1000	11	ND<0.1	ND<0.1	ND<0.1	--	--	ND<0.1	ND<0.1	ND<0.1	ND<100	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.05	ND<0.1	ND<0.1	ND<0.1	
	9/26/2002	11	--	--	4	ND<1000	8	ND<0.1	ND<0.1	ND<0.2	--	--	ND<0.1	ND<0.1	ND<0.1	ND<100	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.05	ND<0.1	ND<0.1	ND<0.1	
	5/9/2002DUP	28	--	--	3.5	NS	12	ND<0.1	ND<0.1	ND<0.1	--	--	ND<0.1	ND<0.1	ND<0.1	ND<100	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.05	ND<0.1	ND<0.1	ND<0.1	
	9/26/2002DUP	10	--	--	10	NS	4.4	ND<0.1	0.59	0.27	--	--	ND<0.1	ND<0.1	ND<0.1	ND<100	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.05	ND<0.1	ND<0.1	ND<0.1	
MW-603	12/1/1995	ND<0.5	--	ND<10	--	--	0.00098	0.0014	0.00062	0.0033	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/1996	ND<0.1	--	--	0.002	--	0.0006	ND<0.0005	0.0014	ND<0.0005	--	--	0.0026	--	ND<0.0003	--	0.0064	ND<0.0003	--	ND<0.0003	0.0039	0.0095	0.03	ND<0.0003	--	--
	12/16/1996	ND<0.1	--	--	ND<0.002	--	ND<0.005	ND<0.005	ND<0.005	ND<0.01	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	0.034	ND<0.005	ND<0.005	ND<0.005
	1/22/1998	ND<0.1	--	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.009	ND<0.005	--	ND<0.01	0.005	ND<0.005	0.063	ND<0.005	ND<0.005	ND<0.005
	8/19/1998	ND<0.1	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	0.029	0.014	ND<0.005	ND<0.005	
	1/27/1999	ND<0.1	--	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.0053	ND<0.005	--	ND<0.01	ND<0.005	0.039	0.019	ND<0.005	ND<0.005	
	7/19/1999	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0074	0.0021	--	ND<0.001	0.003	0.04	0.031	ND<0.001	ND<0.001	
	1/11/2000	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0064	ND<0.001	--	ND<0.001	0.0036	0.016	0.039	ND<0.001	ND<0.001	
	7/31/2000	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0093	ND<0.001	--	ND<0.001	0.0067	0.0072	0.088	ND<0.001	ND<0.001	
	2/7/2001	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.011	ND<0.001	--	ND<0.001	0.0085	0.0027	0.12	ND<0.001	ND<0.001	
	7/24/2001	0.19	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.015	ND<0.001	--	ND<0.001	0.01	0.0029	0.15	ND<0.001	ND<0.001	
	5/7/2002	0.21	--	--	ND<0.002	ND<20	ND<0.001	ND<0.002	ND<0.002	ND<0.004	--	--	ND<0.002	ND<0.002	ND<0.002	ND<2	0.0096	ND<0.002	--	ND<0.002	0.007	ND<0.001	0.12	ND<0.002	ND<0.002	
	9/24/2002	ND<0.1	--	--	ND<0.002	ND<20	ND<0.001	ND<0.002	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	ND<2	0.014	ND<0.002	--	ND<0.002	0.011	0.0032	0.21	ND<0.002	ND<0.002	
	7/1/2004	ND<0.2	--	--	ND<0.005	ND<0.1	ND<0.005	0.0003J	ND<0.0005	ND<0.001	ND<0.0005	ND<0.0005	ND<0.005	--	ND<0.005	ND<0.005	0.012	ND<0.005	ND<0.005	--	0.0057	0.003J	0.08	ND<0.005	ND<0.005	
MW-604	12/20/1995	1.9	--	ND<10	--	--	0.16	0.0033	0.0078	0.021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/1996	0.9	--	--	0.0124	--	0.073	0.0078	ND<0.0005	0.009	--	--	ND<0.0003	--	ND<0.0003	--	0.00098	ND<0.0003	--	ND<0.0003	0.0017	0.0011	ND<0.0003	ND<0.0003	--	
	12/17/1996	0.71	--	--	ND<0.002	--	0.047	ND<0.002	ND<0.002	ND<0.004	--	--	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	0.0057	
	1/22/1998	0.41	--	--	ND<0.005	--	0.007	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.007	
	8/19/1998	0.37	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
	1/27/1999	0.23	--	--	ND<0.005	--	0.025	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0064	
	7/19/1999	0.5	--	--	ND<0.001	--	0.014	ND<0.001	ND<0.001	0.0013	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0042	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0049	
	1/11/2000	0.75	--	--	ND<0.001	--	0.021	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0039	ND<0.001	--	ND<0.001	ND<0.001	0.00099	ND<0.001	ND<0.001	0.023	
	8/3/2000	0.56	--	--	0.03	--	0.1	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0087	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.019	
	2/7/2001	1.1	--	--	0.031	--	0.11	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.0025	ND<0.005	ND<0.005	0.043	
	7/24/2001	1.1	--	--	0.034	--	0.067	ND<0.001	ND<0.001	0.005	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.005	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	0.048	
	5/8/2002	1.1	--	--	0.048	51	0.057	ND<0.001	ND<0.001	0.0033	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	0.047	
	9/25/2002	0.96	--	--	0.072	46	0.034	ND<0.001	ND<0.001	0.0047	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	0.049	
	5/8/2002DUP	1.4	--	--	0.046	NS	0.055	ND<0.001	ND<0.001	0.0032	--	--	ND<0.001	ND<0.001	ND<0.001	1.6	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	0.045	
	9/25/2002DUP	0.97	--	--	0.084	NS	0.036	ND<0.001	ND<0.001	0.0058	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.001	0.049	
MW-605	12/20/1995	ND<1	--	--	--	--	0.01	ND<0.0005	ND<0.0005	0.0049	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	ND<0.1	--	--	ND<0.02	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	--	--	ND<0.0003	--	ND<0.0003	--	ND<0.0003	ND<0.0003	--	ND<0.0003	0.0012	ND<0.0003	0.0043	ND<0.0003	--	
	12/16/1996	ND<0.1	--	--	ND<0.002	--	ND<0.001	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	
	1/22/1998	ND<0.1	--	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
	8/19/1998	ND<0.1	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
	1/28/1999	ND<0.1	--	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
	7/19/1999	ND<0.5	--	--	ND<0.001	--	ND<0.0005	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.												

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	TPHd	TRPH	MTBE	TBA	Benzene	Toluene	Ethyl- benzene	Total Xylenes	o-Xylene	m,p-Xylene	BDCM	BCM	Chloroform	Chloroethane	c-1,2 DCE	1,2-DCB	CFC11	Dichloro- difluoro- methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB
	1/27/1999	1.76	--	--	0.0062	--	0.22	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.015
	7/19/1999	1.2	--	--	ND<0.005	--	0.26	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.0025	ND<0.005	ND<0.005	0.013
	1/11/2000	1.2	--	--	0.0045	--	0.17	ND<0.002	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	ND<0.002	ND<0.002	0.0086
	7/31/2000	0.54	--	--	0.0062	--	0.11	ND<0.002	ND<0.002	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.001	ND<0.002	ND<0.002	0.0073
	2/7/2001	0.05	--	--	ND<0.001	--	0.012	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0011	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0035
	7/24/2001	0.59	--	--	ND<0.001	--	0.013	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.0014	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0053
	5/7/2002	0.49	--	--	ND<0.001	91	0.004	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0015	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0036
	9/24/2002	0.11	--	--	0.0041	76	ND<0.0005	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.002	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0018
	5/7/2002DUP	0.44	--	--	ND<0.001	NA	0.0054	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0017	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0036
	9/24/2002DUP	0.11	--	--	0.0042	NA	ND<0.0005	ND<0.001	ND<0.001	ND<0.002	--	--	ND<0.001	ND<0.001	ND<0.001	ND<1	0.0019	ND<0.001	--	ND<0.001	ND<0.001	ND<0.0005	ND<0.001	ND<0.001	0.0018
	6/30/2004	0.54	--	--	0.004J	0.05J	0.01	ND<0.0005	ND<0.0005	0.0019	ND<0.0005	0.0014	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.019
MW-A	2/20/1991	0.0498	--	--	--	--	17	14	1.8	12.5	--	--	--	--	--	--	--	ND<0.25	--	--	--	--	--	--	--
Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-B	2/25/1991	ND<1	--	--	--	--	3.5	0.03	0.18	0.467	--	--	--	--	--	--	--	ND<0.0005	--	--	--	--	--	--	--
Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-I	2/19/1991	11	--	--	--	--	9.2	2.4	1.5	8.7	--	--	--	--	--	--	--	ND<0.05	--	--	--	--	--	--	--
Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-C	3/31/1995	0.06	--	--	--	--	0.0006	0.014	ND<0.0005	0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	7/11/1995	ND<0.05	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/1995	ND<0.5	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/1995	ND<0.5	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/1996	ND<0.5	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/1996	ND<0.5	--	--	ND<0.02	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-D	3/31/1995	ND<0.05	--	--	--	--	ND<0.0005	0.0066	ND<0.0005	0.0016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	7/11/1995	ND<0.05	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/1995	ND<0.5	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/1995	ND<0.5	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/1996	ND<0.5	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/1996	ND<0.5	--	--	ND<0.02	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-E	3/31/1995	0.06	--	--	--	--	0.0091	0.0066	0.0011	0.0023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	7/11/1995	ND<0.05	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/1995	ND<0.5	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/1995	ND<0.5	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	ND<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/1996	ND<0.5	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/1996	ND<0.5	--	--	ND<0.02	--	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	1,1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
Operational Area 1: Bloomfield Proper																			
MW-106	12/20/1995	--	--	--	--	--	--	--	--	--	--	--	0.015	0.0015	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	0.017	0.0025	--	--	--	0.00098	--
	12/17/1996	ND<0.002	ND<0.002	--	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	0.026	ND<0.002	ND<0.002	ND<0.002	--	ND<0.004	--
	1/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	0.01	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/20/1998	ND<0.005	ND<0.005	--	0.0059	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	0.0058	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	0.0072	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.001	--	0.0052	--	--	ND<0.01	ND<0.001	0.0015	--	ND<0.001	0.0064	0.0026	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/14/2000	ND<0.01	ND<0.01	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.0096	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/31/2000	ND<0.001	ND<0.01	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.01	ND<0.001	ND<0.001	ND<0.01	0.021	0.021	0.0021	ND<0.001	ND<0.001	--	0.025	--
	2/6/2001	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.025	0.0028	ND<0.001	ND<0.001	--	0.015	ND<0.001
	7/24/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.023	0.0021	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/7/2002	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.017	0.0019	ND<0.001	ND<0.001	--	0.015	ND<0.001
	9/24/2002	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.024	0.0016	ND<0.001	ND<0.001	--	0.021	ND<0.001
	7/1/2004	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	--	ND<0.005	--	ND<0.005	0.021	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005
MW-107	12/21/1995	--	--	--	--	--	--	--	--	--	--	--	0.0065	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	0.019	0.00078	--	--	--	0.0011	--
	12/17/1996	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	0.033	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	--
	1/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	0.047	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	0.025	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	0.044	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.05	ND<0.005	--	ND<0.005	--	--	ND<0.05	ND<0.005	ND<0.005	--	ND<0.005	0.077	ND<0.005	ND<0.005	ND<0.005	--	ND<0.0025	ND<0.005
	1/12/2000	ND<0.01	ND<0.001	--	0.0022	--	--	ND<0.01	ND<0.001	0.003	--	ND<0.001	0.11	0.0034	ND<0.001	ND<0.001	--	ND<0.0005	0.0013
	7/31/2000	ND<0.05	ND<0.005	ND<0.005	0.049	0.11	0.14	ND<0.05	ND<0.005	0.0086	ND<0.011	ND<0.005	0.059	ND<0.005	ND<0.005	ND<0.005	--	0.053	ND<0.005
	2/6/2001	ND<0.01	ND<0.001	0.001	0.057	--	--	ND<0.01	ND<0.001	0.0097	--	ND<0.001	0.0045	ND<0.001	ND<0.001	ND<0.001	--	0.021	ND<0.001
	7/26/2001	ND<0.01	ND<0.001	--	0.053	--	--	ND<0.01	ND<0.001	0.0085	--	ND<0.001	0.013	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/9/2002	ND<0.02	ND<0.002	ND<2	0.048	--	--	ND<0.02	ND<0.002	0.0084	--	ND<0.002	0.0057	ND<0.02	ND<0.002	ND<0.002	--	0.03	ND<0.002
	9/25/2002	ND<0.02	ND<0.002	ND<2	0.068	--	--	ND<0.02	ND<0.002	0.012	--	ND<0.002	ND<0.002	ND<0.02	ND<0.002	ND<0.002	--	0.028	ND<0.002
	7/1/2004	ND<0.005	0.002J	0.002J	0.14	--	--	0.002J	--	0.02	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	0.012	ND<0.005
MW-203	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	0.0045	--	--	--	--	0.0014	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	0.0017	0.00034	--	--	--	0.002	--
	12/17/1996	ND<0.001	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.002	--
	1/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.0019	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/12/2000	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/31/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.01	ND<0.001	ND<0.001	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	0.00051	ND<0.001
	2/6/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	0.0016	ND<0.001	ND<0.001	ND<0.001	--	0.0011	ND<0.001
	7/24/2001	ND<0.01	ND<0.001</																

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	7/1/2004	ND<0.005	ND<0.005	--	--	--	--	ND<0.005	--	ND<0.005	--	ND<0.005	<b>0.004J</b>	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005
<b>Operational Area 2: East Tank Farm Ar</b>																			
MW-103	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-103	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	ND<0.0005	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	--	--	--	<b>0.0025</b>	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	<b>0.00038</b>	--	--	--	ND<0.0003	--
	12/17/1996	ND<0.005	ND<0.005	--	<b>0.0084</b>	--	--	ND<0.005	ND<0.005	ND<0.005	--	<b>0.0089</b>	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.054</b>	--
	1/21/1998	ND<0.005	ND<0.005	--	<b>0.015</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.028</b>	ND<0.005
	8/19/1998	ND<0.005	<b>0.0069</b>	--	<b>0.018</b>	--	--	ND<0.01	ND<0.005	<b>0.0054</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	<b>0.0059</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	<b>0.0031</b>	--	<b>0.0081</b>	--	--	ND<0.01	ND<0.001	<b>0.0039</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/12/2000	ND<0.01	<b>0.0035</b>	--	<b>0.0067</b>	--	--	ND<0.01	ND<0.001	<b>0.0037</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	8/4/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.01	ND<0.001	<b>0.0039</b>	ND<0.01	ND<0.001	ND<0.001	<b>0.0012</b>	ND<0.001	ND<0.001	--	<b>0.00075</b>	ND<0.001
	2/9/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	<b>0.0036</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/25/2001	ND<0.01	<b>0.0029</b>	--	<b>0.0055</b>	--	--	ND<0.01	ND<0.001	<b>0.0032</b>	--	ND<0.001	ND<0.001	ND<0.001	<b>0.0058</b>	<b>0.0017</b>	--	ND<0.0005	ND<0.001
	5/8/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	9/25/2002	ND<0.01	<b>0.0039</b>	ND<1	<b>0.013</b>	--	--	ND<0.01	ND<0.001	<b>0.0043</b>	--	ND<0.001	ND<0.001	ND<0.001	<b>0.0014</b>	ND<0.001	--	ND<0.0005	ND<0.001
MW-202	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	<b>0.00034</b>	<b>0.00037</b>	--	--	--	ND<0.0003	--
	12/17/1996	ND<0.005	ND<0.005	--	<b>0.1</b>	--	--	ND<0.05	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	--
	1/21/1998	ND<0.005	<b>0.011</b>	--	<b>0.1</b>	--	--	ND<0.01	ND<0.005	<b>0.016</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/18/1998	ND<0.005	<b>0.016</b>	--	<b>0.091</b>	--	--	ND<0.01	ND<0.005	<b>0.026</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	<b>0.13</b>	--	--	ND<0.01	ND<0.005	<b>0.029</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.02	<b>0.019</b>	--	<b>0.13</b>	--	--	ND<0.02	ND<0.002	<b>0.029</b>	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.001	ND<0.002
	1/11/2000	ND<0.01	<b>0.0072</b>	--	<b>0.029</b>	--	--	ND<0.01	ND<0.001	<b>0.023</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	8/2/2000	ND<0.01	<b>0.0019</b>	<b>0.018</b>	<b>0.01</b>	ND<0.01	ND<0.01	ND<0.01	ND<0.001	<b>0.023</b>	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	2/7/2000	ND<0.01	<b>0.0011</b>	<b>0.018</b>	<b>0.0077</b>	--	--	ND<0.01	ND<0.001	<b>0.01</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.0033</b>	ND<0.001
	7/24/2001	ND<0.01	<b>0.0024</b>	--	<b>0.016</b>	--	--	ND<0.01	ND<0.001	<b>0.004</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/8/2002	ND<0.01	<b>0.0031</b>	<b>1.4</b>	<b>0.032</b>	--	--	ND<0.01	ND<0.001	<b>0.0036</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	9/26/2002	ND<0.05	ND<0.005	ND<5	<b>0.069</b>	--	--	ND<0.05	ND<0.005	<b>0.0056</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.0025	ND<0.005
MW-204	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t,1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1996	ND<0.001	--	--	--	--	--	--	--	--	--	ND<0.001	ND<0.001	<b>0.0011</b>	--	--	--	<b>0.0052</b>	--
	12/17/1996	ND<0.05	ND<0.05	--	ND<0.05	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.1	--
	1/21/1998	ND<0.005	ND<0.005	--	<b>0.036</b>	--	--	<b>0.065</b>	ND<0.005	<b>0.081</b>	--	ND<0.005	ND<0.005	ND<0.005	<b>0.09</b>	<b>0.023</b>	--	<b>0.009</b>	ND<0.005
MW-204	8/21/1998	ND<0.05	ND<0.05	--	<b>0.054</b>	--	--	ND<0.1	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	<b>0.2</b>	ND<0.05	--	ND<0.1	ND<0.05
	1/28/1999	ND<0.05	ND<0.05	--	ND<0.05	--	--	ND<0.1	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	<b>0.21</b>	<b>0.052</b>	--	ND<0.1	ND<0.05
	1/28/1999DUP	ND<0.005	ND<0.005	--	<b>0.048</b>	--	--	<b>0.094</b>	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	<b>0.25</b>	<b>0.061</b>	--	<b>0.012</b>	ND<0.005
	7/19/1999	ND<0.1	ND<0.01	--	<b>0.023</b>	--	--	ND<0.1	ND<0.1	ND<0.1	--	ND<0.01	ND<0.01	ND<0.01	<b>0.047</b>	<b>0.011</b>	--	ND<0.005	ND<0.01
	1/11/2000	ND<0.1	ND<0.01	--	<b>0.019</b>	--	--	ND<0.1	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	ND<0.005	ND<0.01
	8/3/2000	ND<0.05	ND<0.005	ND<0.005	<b>0.021</b>	<b>0.064</b>	<b>0.088</b>	ND<0.01	ND<0.005	ND<0.005	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.0025	ND<0.005
	2/8/2001	ND<0.01	ND<0.001	ND<0.001	<b>0.0029</b>	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/24/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/9/2002	ND<0.02	ND<0.002	ND<2	<b>0.013</b>	--	--	ND<0.02	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.002	<b>0.026</b>	<b>0.0089</b>	--	<b>0.0035</b>	ND<0.002
	9/26/2002	ND<0.02	ND<0.002	ND<2	<b>0.0095</b>	--	--	ND<0.02	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.002	<b>0.022</b>	<b>0.0077</b>	--	<b>0.0034</b>	ND<0.002
	6/30/2004	ND<0.005	ND<0.005	ND<0.005	<b>ND&lt;0.005</b>	--	--	<b>0.004J</b>	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	<b>0.0068</b>	<b>0.002J</b>	--	ND<0.005	ND<0.005
W-7	8/4/2000	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	2/8/2001	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/26/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/7/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	9/24/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
<b>Operational Area 3: Processing Area</b>																			
MW-104	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	<b>0.00078</b>	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	<b>0.00054</b>	--	--	--	ND<0.0003	--
	12/16/1996	ND<0.001	ND<0.001	--	<b>0.0052</b>	--	--	ND<0.001	ND<0.001	<b>0.0029</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.0032</b>	--
	1/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/18/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
MW-104A	7/19/1999	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0012</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/13/2000	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.0057</b>	ND<0.001
	8/2/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.01	ND<0.001	ND<0.001	ND<0.01	ND<0.001	ND<0.001	<b>0.0018</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	2/7/2001	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0014</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001

**TABLE D2-A**  
**HISTORICAL GROUNDWATER DATA**  
**TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)**  
**FORMER CENCO REFINERY**  
**SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB	
	7/25/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0014</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
	5/7/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0014</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
	9/24/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0014</b>	<b>0.0016</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	6/30/2004	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	--	--	--	ND<0.005	--	ND<0.005	<b>0.002J</b>	<b>0.004J</b>	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	
MW-504	12/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/1996	ND<0.001	--	--	--	--	--	--	--	--	--	ND<0.001	<b>0.00046</b>	<b>0.00078</b>	--	--	--	<b>0.0011</b>	--	
	12/18/1996	ND<0.25	ND<0.25	--	<b>0.35</b>	--	--	<b>2.3</b>	<b>0.37</b>	ND<0.25	--	ND<0.25	ND<0.25	ND<0.25	<b>5</b>	<b>2.1</b>	--	ND<0.5	--	
	1/21/1998	ND<0.25	ND<0.25	--	ND<0.25	--	--	<b>0.36</b>	ND<0.25	ND<0.25	--	ND<0.25	ND<0.25	ND<0.25	<b>0.8</b>	<b>0.34</b>	--	ND<0.5	ND<0.25	
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/28/1999	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/19/1999	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/10/2000	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/31/2000	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-504	2/6/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/24/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/6/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/23/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Operational Area 4: West Tank Farm A</b>																				
MW-101	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>0.18</b>	--	--	
	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/1995	<b>0.0013</b>	--	--	--	--	--	--	--	--	--	<b>0.036</b>	<b>0.00097</b>	<b>0.1</b>	--	--	--	ND<0.0005	--	
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	<b>24</b>	ND<0.0003	<b>0.041</b>	--	--	--	ND<0.0003	--	
	12/17/1996	ND<0.025	ND<0.025	--	ND<0.025	--	--	ND<0.025	ND<0.025	ND<0.025	--	<b>0.057</b>	ND<0.025	<b>0.24</b>	ND<0.025	ND<0.025	--	ND<0.05	--	
	1/19/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.18</b>	ND<0.005	<b>0.32</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	
	8/18/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.034</b>	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	
	1/26/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.0193</b>	ND<0.005	<b>0.16</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	
	7/19/1999	ND<0.02	ND<0.002	--	ND<0.002	--	--	ND<0.02	ND<0.002	ND<0.002	--	<b>0.078</b>	<b>0.0085</b>	<b>0.27</b>	ND<0.002	ND<0.002	--	ND<0.001	ND<0.002	
	1/10/2000	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	<b>0.21</b>	<b>0.0035</b>	<b>0.26</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
	8/3/2000	ND<0.02	ND<0.002	ND<0.002	ND<0.002	ND<0.01	ND<0.01	ND<0.02	ND<0.002	ND<0.002	ND<0.01	<b>0.037</b>	<b>0.019</b>	<b>0.27</b>	ND<0.002	ND<0.002	--	<b>0.005</b>	ND<0.002	
	2/9/2001	ND<0.05	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.05	ND<0.005	ND<0.005	--	<b>0.0099</b>	<b>0.011</b>	<b>0.1</b>	ND<0.005	ND<0.005	--	<b>0.0032</b>	ND<0.005	
	7/26/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	<b>0.0081</b>	<b>0.015</b>	<b>0.1</b>	ND<0.001	ND<0.001	--	<b>0.0043</b>	ND<0.001	
	5/8/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	<b>0.0062</b>	<b>0.0056</b>	<b>0.078</b>	ND<0.001	ND<0.001	--	<b>0.0019</b>	ND<0.001	
	9/25/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	<b>0.0045</b>	<b>0.0045</b>	<b>0.079</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
MW-105	12/21/1995	--	--	--	--	--	--	--	--	--	--	<b>0.016</b>	--	<b>0.046</b>	--	--	--	--	--	
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	<b>0.024</b>	ND<0.0003	<b>0.033</b>	--	--	--	ND<0.0003	--	
	12/16/1996	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	<b>0.08</b>	ND<0.005	<b>0.11</b>	ND<0.005	ND<0.005	--	ND<0.01	--	
	1/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.15</b>	ND<0.005	<b>0.21</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	
	8/18/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.0967</b>	ND<0.005	<b>0.162</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005	
	1/25/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.125</b>	ND<0.005	<b>0.187</b>	ND<0.005	ND<0.005	--	<b>0.00643</b>	ND<0.005	
	7/19/1999	ND<0.01	ND<0.001	--	ND<0.001	ND<0.0095	ND<0.0095	ND<0.01	ND<0.001	ND<0.001	--	<b>0.078</b>	<b>0.015</b>	<b>0.28</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
	1/10/2000	ND<0.05	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.05	ND<0.005	ND<0.005	--	ND<0.005	<b>0.062</b>	<b>0.13</b>	ND<0.005	ND<0.005	--	ND<0.0025	ND<0.005	
	7/31/2000	ND<0.05	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.0095	ND<0.005	ND<0.005	ND<0.0095	ND<0.005	<b>0.059</b>	<b>0.16</b>	ND<0.005	ND<0.005	--	<b>0.01</b>	ND<0.005	
	2/6/2001	ND<0.05	ND<0.005	--	ND<0.005	--	--	ND<0.05	ND<0.005	ND<0.005	--	ND<0.005	<b>0.021</b>	<b>0.047</b>	ND<0.005	ND<0.005	--	<b>0.0079</b>	ND<0.005	
	7/24/2001	ND<0.001	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	<b>0.011</b>	<b>0.036</b>	ND<0.001	--	--	ND<0.0005	ND<0.001	
	5/7/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.002	<b>0.0068</b>	<b>0.038</b>	ND<0.001	ND<0.001	--	<b>0.0039</b>	ND<0.001	
	9/24/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.003	<b>0.0064</b>	<b>0.043</b>	ND<0.001	ND<0.001	--	<b>0.014</b>	ND<0.001	
	6/30/2004	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	--	ND<0.005	--	<b>0.022</b>	<b>0.0054</b>	<b>0.076</b>	ND<0.005	ND<0.005	--	<b>0.0072</b>	ND<0.005	
MW-201	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
  
FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	<b>0.0007</b>	--	--	--	--	--	--	--	--	--	<b>0.058</b>	<b>0.0017</b>	<b>0.11</b>	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	<b>0.11</b>	ND<0.0003	<b>0.12</b>	--	--	--	ND<0.0003	--
	12/17/1996	ND<0.01	ND<0.01	--	<b>0.021</b>	--	--	ND<0.01	ND<0.01	ND<0.01	--	<b>0.21</b>	ND<0.01	<b>0.21</b>	<b>0.14</b>	<b>0.028</b>	--	ND<0.02	--
	1/21/1998	ND<0.005	ND<0.005	--	<b>0.021</b>	--	--	<b>0.011</b>	ND<0.005	ND<0.005	--	<b>0.16</b>	<b>0.0053</b>	<b>0.18</b>	<b>0.02</b>	<b>0.012</b>	--	ND<0.01	ND<0.005
	1/21/1998DUP	ND<0.005	ND<0.005	--	<b>0.02</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	<b>0.012</b>	<b>0.0055</b>	<b>0.16</b>	<b>0.018</b>	<b>0.0099</b>	--	ND<0.01	ND<0.005
	8/18/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	<b>0.011</b>	ND<0.005	ND<0.005	--	<b>0.016</b>	ND<0.005	<b>0.12</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.05	ND<0.005	--	<b>0.025</b>	--	--	ND<0.05	<b>0.005</b>	ND<0.005	--	<b>0.04</b>	<b>0.012</b>	<b>0.16</b>	<b>0.053</b>	<b>0.015</b>	--	ND<0.0025	ND<0.005
	1/12/2000	ND<0.05	ND<0.005	--	<b>0.015</b>	--	--	ND<0.05	<b>0.0054</b>	ND<0.005	--	ND<0.005	ND<0.005	<b>0.038</b>	<b>0.032</b>	ND<0.005	--	ND<0.0025	ND<0.005
MW-201	8/4/2000	ND<0.05	ND<0.005	ND<0.005	<b>0.012</b>	ND<0.01	ND<0.01	ND<0.01	ND<0.005	ND<0.005	ND<0.01	ND<0.005	ND<0.005	<b>0.032</b>	<b>0.033</b>	ND<0.005	--	ND<0.0025	ND<0.005
	2/9/2001	ND<0.1	ND<0.01	ND<0.01	<b>0.032</b>	--	--	ND<0.1	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	<b>0.013</b>	<b>0.024</b>	ND<0.01	--	ND<0.005	ND<0.01
	7/26/2001	ND<0.1	<b>0.031</b>	--	<b>0.016</b>	--	--	ND<0.1	<b>0.0036</b>	<b>0.033</b>	--	ND<0.01	<b>0.0068</b>	<b>0.008</b>	<b>0.017</b>	<b>0.0025</b>	--	ND<0.01	ND<0.02
	5/9/2002	ND<0.02	ND<0.002	ND<2	<b>0.0086</b>	--	--	ND<0.02	<b>0.0024</b>	<b>0.0021</b>	--	ND<0.002	<b>0.0042</b>	<b>0.014</b>	<b>0.0056</b>	<b>0.0038</b>	--	<b>0.0011</b>	ND<0.002
	9/26/2002	ND<0.01	<b>0.0024</b>	ND<1	<b>0.012</b>	--	--	ND<0.001	<b>0.0026</b>	<b>0.0022</b>	--	ND<0.001	<b>0.0033</b>	<b>0.029</b>	<b>0.012</b>	<b>0.014</b>	--	<b>0.0014</b>	ND<0.001
	6/30/2004	ND<0.005	ND<0.005	ND<0.005	<b>0.024</b>	--	--	<b>0.016</b>	--	<b>0.005J</b>	--	ND<0.005	ND<0.005	ND<0.005	<b>0.0054</b>	<b>0.012</b>	--	<b>0.002J</b>	ND<0.005
MW-205	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	<b>0.00058</b>	--	--	--	--	--	--	--	--	--	<b>0.0028</b>	<b>0.0053</b>	<b>0.08</b>	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	<b>0.0035</b>	ND<0.0003	<b>0.084</b>	--	--	--	ND<0.0003	--
	12/16/1996	ND<0.002	ND<0.002	--	ND<0.002	--	--	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	<b>0.045</b>	ND<0.002	ND<0.002	--	ND<0.004	--
	1/20/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	<b>0.048</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/21/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	<b>0.062</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/26/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	<b>0.0251</b>	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	<b>0.0018</b>	<b>0.012</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/11/2000	ND<0.01	ND<0.001	ND<0.001	<b>0.0011</b>	ND<0.01	ND<0.01	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.013</b>	ND<0.001
	8/2/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	2/7/2001	ND<0.01	ND<0.001	--	<b>0.0015</b>	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0011</b>	<b>0.0017</b>	<b>0.0085</b>	--	<b>0.00096</b>	ND<0.001
	7/26/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.0011</b>	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/8/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	<b>0.011</b>	ND<0.001	ND<0.001	--	<b>0.00065</b>	ND<0.001

TABLE D2-A  
 HISTORICAL GROUNDWATER DATA  
 TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)  
 FORMER CENCO REFINERY  
 SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	9/25/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	<b>0.0011</b>	--	<b>0.0047</b>	ND<0.001
	6/30/2004	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.005	--	ND<0.005	--	ND<0.005	--	--	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005
W-8	8/4/2000	ND<0.001	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	2/6/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/26/2001	ND<0.001	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/7/2002	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	9/24/2002	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/1/2004	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	--	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005
<b>Operational Area 5: Lakeland Property</b>																			
MW-206	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-206	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	<b>0.0014</b>	--	--	--	ND<0.0003	--
	12/18/1996	ND<0.1	ND<0.1	--	<b>0.12</b>	--	--	<b>0.13</b>	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	<b>0.19</b>	<b>0.14</b>	--	ND<0.2	--
	1/21/1998	ND<0.005	<b>0.017</b>	--	<b>0.22</b>	--	--	<b>0.059</b>	<b>0.005</b>	<b>0.011</b>	--	ND<0.005	ND<0.005	ND<0.005	<b>0.035</b>	<b>0.012</b>	--	ND<0.01	<b>0.05</b>
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-501	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Destroyed	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	<b>0.001</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	<b>0.00039</b>	--	--	--	ND<0.0003	--
	12/18/1996	ND<0.05	ND<0.05	--	<b>0.2</b>	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	<b>0.31</b>	<b>0.13</b>	--	ND<0.1	--
	1/21/1998	ND<0.005	ND<0.005	--	<b>0.0061</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	<b>0.0093</b>	ND<0.005	--	ND<0.01	ND<0.005
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/26/1999	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-501A	7/19/1999	ND<0.25	ND<0.025	--	<b>0.052</b>	--	--	ND<0.25	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	--	<0.013	ND<0.025
	1/13/2000	ND<0.1	ND<0.01	--	<b>0.042</b>	--	--	ND<0.1	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	ND<0.005	ND<0.01
	8/2/2000	ND<0.1	ND<0.01	ND<0.01	<b>0.15</b>	<b>0.094</b>	<b>0.14</b>	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	ND<0.006	ND<0.01
	2/7/2001	ND<0.1	ND<0.01	ND<0.01	<b>0.18</b>	--	--	ND<0.1	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	<b>0.0065</b>	ND<0.01
	7/25/2001	ND<0.1	ND<0.01	--	<b>0.21</b>	--	--	ND<0.1	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	ND<0.005	ND<0.01
	5/8/2002	ND<0.02	<b>0.011</b>	ND<2	<b>0.19</b>	--	--	ND<0.02	ND<0.002	<b>0.0093</b>	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	<b>0.0024</b>	ND<0.002
	9/26/2002	ND<0.1	<b>0.038</b>	ND<10	<b>0.38</b>	--	--	ND<0.1	ND<0.01	<b>0.024</b>	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	<b>0.0055</b>	ND<0.01
MW-502	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	<b>0.00052</b>	--	--	--	ND<0.0003	--
	12/18/1996	ND<0.5	ND<0.5	--	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND<1	--
	1/22/1998	ND<0.025	ND<0.025	--	<b>0.18</b>	--	--	<b>0.32</b>	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	<b>0.3</b>	<b>0.07</b>	--	ND<0.05	ND<0.025
	8/19/1998	ND<0.005	<b>0.016</b>	--	<b>0.14</b>	--	--	<b>0.28</b>	ND<0.005	<b>0.01</b>	--	ND<0.005	ND<0.005	ND<0.005	<b>0.34</b>	<b>0.06</b>	--	ND<0.01	ND<0.005
	1/26/1999	ND<0.005	ND<0.005	--	<b>0.135</b>	--	--	<b>0.255</b>	ND<0.005	<b>0.0151</b>	--	ND<0.005	ND<0.005	ND<0.005	<b>0.179</b>	<b>0.0471</b>	--	ND<0.01	ND<0.005
	7/19/1999	ND<50	ND<5	--	ND<5	--	--	ND<50	ND<5	ND<5	--	ND<5	ND<5	ND<5	ND<5	ND<5	--	ND<2.5	ND<5
	1/13/2000	ND<10	ND<1	--	ND<1	--	--	ND<10	ND<10	ND<10	--	ND<1	ND<1	ND<1	ND<1	ND<1	--	ND<0.5	ND<1
	8/2/2000	ND<0.1	ND<0.1	ND<0.1	<b>0.11</b>	<b>0.03</b>	<b>0.045</b>	<b>0.16</b>	ND<0.1	ND<0.1	<b>0.08</b>	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	--	ND<0.05	ND<0.1

**TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)**

**FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	2/7/2001	ND<0.5	ND<0.05	ND<0.05	<b>0.092</b>	--	--	ND<0.5	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.025	ND<0.05
	7/25/2001	ND<0.5	ND<0.05	--	<b>0.11</b>	--	--	ND<0.5	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	<b>0.089</b>	ND<0.05	--	ND<0.025	ND<0.05
	5/9/2002	ND<2	ND<0.2	ND<200	ND<0.2	--	--	ND<2	ND<0.2	ND<0.2	--	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	--	ND<0.1	ND<0.2
	9/26/2002	ND<1	ND<0.1	ND<100	<b>0.1</b>	--	--	ND<1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	<b>0.1</b>	ND<0.1	--	ND<0.05	ND<0.1
MW-503	6/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	9/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1988	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1989	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/1/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1995	<b>0.001</b>	--	--	--	--	--	--	--	--	--	--	<b>0.0012</b>	<b>0.085</b>	--	--	--	<b>0.0014</b>	--
	7/31/1996	ND<0 0003	--	--	--	--	--	--	--	--	--	<b>0.09</b>	ND<0 0003	<b>0.13</b>	--	--	--	ND<0 0003	--
	12/18/1996	ND<0.01	ND<0.01	--	<b>0.048</b>	--	--	<b>0.028</b>	ND<0.01	<b>0.012</b>	--	<b>0.014</b>	ND<0.01	<b>0.27</b>	<b>0.063</b>	<b>0.023</b>	--	ND<0.02	--
	1/21/1998	ND<0.005	<b>0.006</b>	ND<2	<b>0.068</b>	--	--	<b>0.017</b>	ND<0.005	<b>0.012</b>	--	ND<0.005	<b>0.027</b>	<b>0.46</b>	<b>0.0058</b>	<b>0.014</b>	--	ND<0.01	ND<0.005
	8/19/1998	ND<0.005	ND<0.005	1.8	<b>0.014</b>	--	--	<b>0.0053</b>	ND<0.005	ND<0.005	--	ND<0.005	<b>0.071</b>	<b>0.063</b>	<b>0.005</b>	ND<0.005	--	ND<0.01	ND<0.005
MW-503B	2/9/1999	ND<0.05	ND<0.05	--	<b>0.084</b>	--	--	ND<0.05	ND<0.05	ND<0.05	--	ND<0.05	<b>0.15</b>	ND<0.05	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05
	7/19/1999	ND<0.2	ND<0.02	--	<b>0.13</b>	--	--	ND<0.2	ND<0.02	<b>0.02</b>	--	ND<0.02	<b>0.25</b>	<b>0.025</b>	ND<0.02	ND<0.02	--	ND<0.01	ND<0.02
	1/14/2000	ND<0.2	ND<0.02	--	<b>0.17</b>	--	--	ND<0.2	ND<0.02	ND<0.02	--	ND<0.02	<b>0.2</b>	ND<0.02	ND<0.02	ND<0.02	--	ND<0.01	ND<0.02
	8/4/2000	ND<0.01	ND<0.01	ND<0.01	<b>0.1</b>	ND<0.01	ND<0.01	<b>0.023</b>	ND<0.01	<b>0.014</b>	ND<0.01	ND<0.01	<b>0.16</b>	ND<0.01	ND<0.01	ND<0.01	--	ND<0.005	ND<0.01
	2/6/2001	ND<0.2	ND<0.02	ND<0.02	<b>0.13</b>	--	--	ND<0.2	ND<0.02	ND<0.02	--	ND<0.02	<b>0.15</b>	ND<0.02	ND<0.02	ND<0.02	--	ND<0.01	ND<0.02
	7/25/2001	ND<0.5	ND<0.05	--	<b>0.091</b>	--	--	ND<0.5	ND<0.05	ND<0.05	--	ND<0.05	<b>0.057</b>	ND<0.05	ND<0.05	ND<0.05	--	ND<0.025	ND<0.05
	5/9/2002	ND<0.02	<b>0.0071</b>	--	<b>0.12</b>	--	--	<b>0.026</b>	<b>0.0028</b>	<b>0.018</b>	--	ND<0.002	<b>0.023</b>	ND<0.002	<b>0.0025</b>	<b>0.0022</b>	--	<b>0.0077</b>	ND<0.002
	9/26/2002	ND<0.01	<b>0.0086</b>	--	<b>0.15</b>	--	--	<b>0.048</b>	<b>0.0033</b>	<b>0.018</b>	--	ND<0.001	<b>0.016</b>	ND<0.001	<b>0.0025</b>	<b>0.0037</b>	--	<b>0.01</b>	ND<0.001
	7/1/2004	ND<0.005	<b>0.014</b>	<b>0.003J</b>	<b>0.2E</b>	--	--	<b>0.042</b>	--	<b>0.028</b>	--	ND<0.005	--	ND<0.005	<b>0.003J</b>	<b>0.004J</b>	--	ND<0.005	ND<0.005
<b>Operational Area 6: Former AST Area :</b>																			
W-3	11/1/1989	ND<0 0005	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	--	--	--	<b>0.0071(A)</b>	ND<0.0005
Abandoned	1/1/1990	ND<0.002	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.001	ND<0.0005	--	--	--	ND<0.002	ND<0.001
	3/1/1990	ND<0.002	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.001	ND<0.0005	--	--	--	ND<0.002	ND<0.001
	4/1/1990	ND<0.002	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.001	ND<0.0005	--	--	--	ND<0.002	ND<0.001
	12/18/1996	ND<0.025	ND<0.025	--	ND<0.025	--	--	ND<0.025	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	--	ND<0.05	--
	1/13/1998	ND<0.005	ND<0.005	--	<b>0.016</b>	--	--	ND<0.01	ND<0.005	<b>0.006</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.051</b>	ND<0.005
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-3A	1/13/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/20/1998	ND<0.025	ND<0.025	--	ND<0.025	--	--	<b>0.35</b>	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	--	ND<0.05	ND<0.025
	1/28/1999	ND<0.05	ND<0.05	--	ND<0.05	--	--	<b>0.24</b>	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05
	7/19/1999	ND<0.2	<b>0.025</b>	--	<b>0.026</b>	--	--	ND<0.2	ND<0.02	ND<0.02	--	ND<0.02	ND<0.02	ND<0.02	<b>0.037</b>	ND<0.02	--	ND<0.01	ND<0.02
	1/13/2000	ND<0.1	ND<0.01	--	ND<0.01	--	--	ND<0.1	ND<0.01	ND<0.01	--	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	--	<b>0.007</b>	ND<0.01
	8/4/2000	ND<0.02	<b>0.0097</b>	ND<0.002	<b>0.021</b>	<b>0.47</b>	<b>0.74</b>	ND<0.05	ND<0.002	<b>0.0073</b>	ND<0.05	ND<0.002	ND<0.002	ND<0.002	<b>0.002</b>	<b>0.002</b>	--	<b>0.005</b>	ND<0.002
W-3A	2/8/2001	ND<0.01	<b>0.0039</b>	ND<0.001	<b>0.012</b>	--	--	<b>0.063</b>	ND<0.001	<b>0.0036</b>	--	ND<0.001	ND<0.001	ND<0.001	<b>0.013</b>	<b>0.0044</b>	--	<b>0.0017</b>	ND<0.001
	7/26/2001	ND<0.01	<b>0.0087</b>	--	<b>0.024</b>	--	--	<b>0.011</b>	ND<0.001	<b>0.0075</b>	--	ND<0.001	ND<0.001	ND<0.001	<b>0.015</b>	ND<0.001	--	<b>0.027</b>	ND<0.001
	5/6/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/25/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Offsite Wells: Walker Property</b>																			
W-1	11/1/1989	ND<0.0005(A)	--	--	--	--	--	--	--	--	--	ND<0.0005(A)	ND<0.0005(A)	ND<0.0005(A)	--	--	--	<b>0.021</b>	ND<0.0005
	3/1/1990	ND<0.02	--	--	--	--	--	--	--	--	--	ND<0.005	ND<0.01	ND<0.005	--	--	--	ND<0.02	ND<0.01
	4/1/1990	ND<0.005	--	--	--	--	--	--	--	--	--	ND<0.005	ND<0.005	ND<0.005	--	--	--	ND<0.005	ND<0.005
	12/18/1996	ND<0.005	ND<0.005	--	<b>0.031</b>	--	--	<b>0.01</b>	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	--
	1/14/1998	ND<0.005	ND<0.005	--	<b>0.02</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.016</b>	ND<0.005
	8/20/1998	ND<0.005	ND<0.005	--	<b>0.03</b>	--	--	ND<0.01	ND<0.005	<b>0.005</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.026</b>	ND<0.005
	1/29/1999	ND<0.005	ND<0.005	--	<b>0.028</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.018</b>	ND<0.005
	7/19/1999	ND<0.02	<b>0.0027</b>	--	<b>0.023</b>	--	--	ND<0.02	ND<0.002	<b>0.0044</b>	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.001	ND<0.002
	1/1300	ND<0.01	<b>0.0027</b>	--	<b>0.024</b>	--	--	ND<0.01	ND<0.001	<b>0.0039</b>	--	ND<0.00							

**TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)**

**FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB	
	9/25/2002	ND<0.01	ND<0.001	ND<1	<b>0.0027</b>	--	--	ND<0.01	ND<0.001	<b>0.001</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.014</b>	ND<0.001	
	7/1/2004	ND<0.005	ND<0.005	ND<0.005	--	--	--	ND<0.005	--	<b>0.001J</b>	--	ND<0.005	<b>0.004J</b>	ND<0.005	ND<0.005	ND<0.005	--	<b>0.002</b>	ND<0.005	
	10/6/2005	--	--	--	ND<0.01	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	<b>0.0016</b>	ND<0.001	ND<0.001	ND<0.001	ND<0.01	--	<b>0.0071</b>	--
	2/15/2006	--	ND<0.005	--	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	<b>0.0013J</b>	ND<0.005	ND<0.005	ND<0.005	--	<b>0.0033J</b>	--	
	8/3/2006	--	ND<0.005	--	<b>0.0087</b>	--	--	ND<0.005	ND<0.002	ND<0.005	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.005	--	
W-2	11/1/1989	ND<0.0005(A)	--	--	--	--	--	--	--	--	--	ND<0.0005(A)	ND<0.0005(A)	ND<0.0005(A)	--	--	--	<b>0.075(A)</b>	ND<0.0005	
Abandoned	3/1/1990	ND<0.002	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.001	ND<0.0005	--	--	--	ND<0.002	ND<0.001	
	4/1/1990	ND<0.005	--	--	--	--	--	--	--	--	--	ND<0.0025	ND<0.005	ND<0.0025	--	--	--	<b>0.0059</b>	ND<0.001	
	12/18/1996	ND<0.002	ND<0.002	--	<b>0.012</b>	--	--	ND<0.002	ND<0.002	ND<0.002	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	<b>0.011</b>	--	
	1/14/1998	ND<0.005	ND<0.005	--	<b>0.006</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.027</b>	ND<0.005	
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
W-4	3/1/1990	ND<0.0005	--	--	--	--	--	--	--	--	--	ND<0.0005	ND<0.0005	ND<0.0005	--	--	--	ND<0.0005	ND<0.0005	
	4/1/1990	ND<0.002	--	--	--	--	--	--	--	--	--	ND<0.001	ND<0.001	ND<0.001	--	--	--	<b>0.0043</b>	ND<0.001	
	12/18/1996	ND<0.005	ND<0.005	--	<b>0.018</b>	--	--	ND<0.005	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	--	
	1/14/1998	ND<0.005	ND<0.005	--	<b>0.027</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.016</b>	ND<0.005	
	8/20/1998	ND<0.005	ND<0.005	--	<b>0.025</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.0098</b>	ND<0.005	
	1/29/1999	ND<0.005	ND<0.005	--	<b>0.016</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.011</b>	ND<0.005	
	7/19/1999	ND<0.02	ND<0.002	--	<b>0.015</b>	--	--	ND<0.02	ND<0.002	<b>0.0027</b>	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.001	ND<0.002	
	1/13/2000	ND<0.01	ND<0.001	--	<b>0.0016</b>	--	--	ND<0.01	ND<0.001	<b>0.0014</b>	--	ND<0.001	ND<0.001	ND<0.01	ND<0.001	ND<0.001	--	<b>0.013</b>	ND<0.001	
	8/3/2000	ND<0.01	ND<0.001	ND<0.001	<b>0.0023</b>	ND<0.01	ND<0.01	ND<0.01	ND<0.001	<b>0.0015</b>	ND<0.01	ND<0.001	<b>0.0012</b>	ND<0.01	ND<0.001	ND<0.001	--	<b>0.012</b>	ND<0.001	
	2/8/2001	ND<0.01	ND<0.001	--	<b>0.003</b>	--	--	ND<0.01	ND<0.001	<b>0.0011</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.007</b>	ND<0.001	
	7/26/2001	ND<0.01	ND<0.001	--	<b>0.0057</b>	--	--	ND<0.01	ND<0.001	<b>0.0017</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
	5/8/2002	ND<0.01	ND<0.001	ND<1	<b>0.0023</b>	--	--	ND<0.01	ND<0.001	<b>0.0014</b>	--	ND<0.001	<b>0.002</b>	ND<0.001	ND<0.001	ND<0.001	--	<b>0.0052</b>	ND<0.001	
	9/25/2002	ND<0.01	ND<0.001	ND<1	<b>0.0049</b>	--	--	ND<0.001	ND<0.001	<b>0.0023</b>	--	ND<0.001	<b>0.0038</b>	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001	
	7/1/2004	ND<0.005	ND<0.005	ND<0.005	<b>0.003J</b>	--	--	ND<0.005	--	<b>0.001J</b>	--	ND<0.005	<b>0.001J</b>	ND<0.005	ND<0.005	ND<0.005	--	<b>0.011</b>	ND<0.005	
	10/6/2005	--	--	--	<b>0.0042</b>	--	--	ND<0.01	ND<0.001	<b>0.0011</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.0013</b>	--	
	2/15/2006	--	ND<0.005	--	<b>0.0075</b>	--	--	ND<0.005	ND<0.005	<b>0.002J</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	<b>0.0024J</b>	--	
	8/3/2006	--	ND<0.005	--	ND<0.002	--	--	ND<0.005	ND<0.002	ND<0.005	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.005	--	
EW-1	11/1/1989	ND<0.005	--	--	--	--	--	--	--	--	--	ND<0.005	<b>0.0098</b>	ND<0.005	--	--	--	<b>0.029</b>	ND<0.005	
	3/1/1990	ND<0.1	--	--	--	--	--	--	--	--	--	ND<0.025	ND<0.05	ND<0.025	--	--	--	ND<0.1	ND<0.05	
	4/1/1990	ND<0.005	--	--	--	--	--	--	--	--	--	ND<0.001	<b>0.02</b>	ND<0.01	--	--	--	ND<0.02	ND<0.01	
	8/21/1998	ND<0.05	ND<0.05	--	<b>0.17</b>	--	--	<b>0.15</b>	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	
	1/28/1999	ND<0.05	ND<0.05	--	<b>0.15</b>	--	--	<b>0.13</b>	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.1	ND<0.05	
	7/19/1999	ND<0.25	ND<0.025	--	<b>0.16</b>	--	--	ND<0.25	ND<0.025	ND<0.025	--	ND<0.025	ND<0.025	ND<0.025	ND<0.025	<b>0.025</b>	--	<0.013	ND<0.025	
	1/13/2000	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/31/2000	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/6/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/26/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/6/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/25/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
<b>Offsite Wells: Metropolitan State Hosp</b>																				
MW-600	8/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Abandoned	2/20/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/1996	ND<0.001	--	--	--	--	--	--	--	--	--	ND<0.001	ND<0.001	<b>0.00053</b>	--	--	--	ND<0.001	--	
	12/19/1996	ND<0.5	ND<0.5	--	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	<b>1.8</b>	<b>0.58</b>	--	ND<1	--	
	1/22/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/28/1999	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-600A	7/19/1999	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/10/2000	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/31/2000	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/6/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/24/2001	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/6/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/23/2002	NS	NS	NS	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-601	8/1/1990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Abandoned	2/20/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/1996	ND<0.001	--	--	--	--	--	--	--	--	--	ND<0.001	ND<0.001	<b>0.00051</b>	--	--	--	<b>0.0019</b>	--	
MW-601	12/19/1996	ND<0.5	ND<0.5	--	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	<b>1.1</b>	ND<0.5	--	ND<1	--	
Abandoned	1/22/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/20/1998	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/28/1999	NS	NS	--	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-601A	7/19/1999	ND<50	ND<5	--	ND<5	--	--	ND<50	ND<5	ND<5	--	ND<5	ND<5	ND<5	ND<5	ND<5	--	<25	ND<5	
	1/13/2000	ND<10	ND<1	--	ND<1	--	--	ND<10	ND<1	ND<1	--	ND<1	ND<1	ND<1	ND<1	ND<1	--	ND<0.5	ND<1	
	8/3/2000	ND<0.2	ND<0.2	--	ND<0.2	--	--	<b>0.069</b>	ND<0.2	ND<0.2	ND<0.01	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	--	ND<0.1	ND<0.2	

TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	2/7/2001	ND<0.5	ND<0.05	ND<0.2	0.13	0.015	0.025	ND<0.5	ND<0.05	ND<0.05	--	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	--	ND<0.025	ND<0.05
	7/24/2001	ND<0.1	ND<0.1	ND<0.05	0.0018	--	--	ND<0.1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	--	ND<0.05	ND<0.1
	5/9/2002	ND<0.1	ND<0.1	ND<100	0.15	--	--	ND<1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	--	ND<0.05	ND<0.1
	9/26/2002	ND<1	ND<0.1	ND<100	0.2	--	--	ND<1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	--	ND<0.05	ND<0.1
	5/9/2002DUP	ND<1	ND<0.1	ND<100	0.17	--	--	ND<1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	--	ND<0.05	ND<0.1
	9/26/2002DUP	ND<1	ND<0.1	ND<100	0.11	--	--	ND<1	ND<0.1	ND<0.1	--	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	--	ND<0.05	ND<0.1
MW-603	12/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	0.053	ND<0.0003	0.056	--	--	--	0.00045	--
	12/16/1996	0.006	ND<0.005	--	ND<0.005	--	--	ND<0.005	ND<0.005	ND<0.005	--	0.037	ND<0.005	0.056	ND<0.005	ND<0.005	--	ND<0.01	--
	1/22/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	0.059	ND<0.005	0.089	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/19/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	0.013	ND<0.005	0.031	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	0.025	ND<0.005	0.042	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.01	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.037	ND<0.001	0.062	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/11/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.011	ND<0.011	ND<0.001	ND<0.001	ND<0.001	--	0.056	ND<0.001	0.074	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/31/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	ND<0.01	0.095	ND<0.001	0.11	ND<0.001	ND<0.001	--	0.00071	ND<0.001
	2/7/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.089	0.0028	0.14	ND<0.001	ND<0.001	--	0.00096	ND<0.001
	7/24/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.11	0.0083	0.21	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/7/2002	ND<0.002	ND<0.002	ND<2	ND<0.002	--	--	ND<0.02	ND<0.002	ND<0.002	--	0.17	0.0034	0.16	ND<0.002	ND<0.002	--	ND<0.001	ND<0.002
	9/24/2002	ND<0.002	ND<0.002	ND<2	ND<0.002	--	--	ND<0.02	ND<0.002	ND<0.002	--	0.21	0.0053	0.21	ND<0.002	ND<0.002	--	0.0016	ND<0.002
	7/1/2004	ND<0.005	ND<0.005	ND<0.005	0.002J	--	--	0.002J	--	ND<0.005	--	0.12	0.003J	0.087	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005
MW-604	12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	--	--	--	ND<0.0003	--
	12/17/1996	ND<0.002	ND<0.002	--	0.0036	--	--	ND<0.002	ND<0.002	0.0022	--	<0.0020	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.004	--
	1/22/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	--
	8/19/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/27/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.001	--	0.0013	--	--	ND<0.01	ND<0.001	0.0026	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/11/2000	ND<0.01	ND<0.001	--	0.0082	--	--	ND<0.01	ND<0.001	0.0043	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	8/3/2000	ND<0.01	ND<0.001	ND<0.001	0.0011	ND<0.01	ND<0.01	ND<0.01	ND<0.001	0.0056	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.001
	2/7/2001	ND<0.05	ND<0.005	ND<0.005	0.025	--	--	ND<0.05	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	0.0068	ND<0.005
	7/24/2001	ND<0.001	0.0021	--	0.034	--	--	ND<0.01	ND<0.001	0.0056	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/8/2002	ND<0.01	0.0022	ND<1	0.034	--	--	ND<0.01	ND<0.001	0.0052	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	0.0053	ND<0.001
	9/25/2002	ND<0.01	0.0032	1	0.034	--	--	ND<0.01	0.0012	0.0067	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	0.0013	0.0041
	5/8/2002DUP	ND<0.01	0.0022	ND<1	0.032	--	--	ND<0.01	ND<0.001	0.0052	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	0.0053	ND<0.001
	9/25/2002DUP	ND<0.01	0.0028	1.1	0.033	--	--	ND<0.01	0.0012	0.0068	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	0.0048	ND<0.001
MW-605	12/20/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	0.013	ND<0.0003	0.018	--	--	--	ND<0.0003	--
	12/16/1996	ND<0.001	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	0.011	ND<0.001	2	ND<0.001	ND<0.001	--	ND<0.002	--
	1/22/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	0.014	ND<0.005	0.032	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/19/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/28/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.0016	0.0032	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/11/2000	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.007	ND<0.001	0.036	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	8/2/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.01	ND<0.001	ND<0.001	ND<0.01	0.022	ND<0.001	0.034	ND<0.001	ND<0.001	--	ND<0.01	ND<0.001
	2/7/2001	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.0071	ND<0.001	0.025	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/24/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.026	ND<0.001	0.01	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/7/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.019	ND<0.001	0.022	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	9/24/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.013	ND<0.001	0.033	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	6/30/2004	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	ND<0.005	--	ND<0.005	--	0.005J	ND<0.005	0.24	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005
MW-606	12/19/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/1996	ND<0.0003	--	--	--	--	--	--	--	--	--	ND<0.0003	ND<0.0003	ND<0.0003	--	--	--	ND<0.0003	--
	12/16/1996	ND<0.001	ND<0.001	--	ND<0.001	--	--	ND<0.001	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.002	--
	1/22/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	8/19/1998	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	1/28/1999	ND<0.005	ND<0.005	--	ND<0.005	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	1/11/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.01	ND<0.001	ND<0.001	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	8/2/2000	ND<0.01	ND<0.001	ND<0.001	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	ND<0.01	0.022	ND<0.001	0.034	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	2/7/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.0071	ND<0.001	0.025	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	7/24/2001	ND<0.01	ND<0.001	--	ND<0.001	--	--	ND<0.01	ND<0.001	ND<0.001	--	0.026	ND<0.001	0.01	ND<0				

**TABLE D2-A  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (PREVIOUS CONSULTANTS)**

**FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	MC	n-BB	t-BB	n-PB	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4-TMB	1,3,5-TMB	TOX	VC	CB
	1/27/1999	ND<0.005	ND<0.005	--	<b>0.025</b>	--	--	ND<0.01	ND<0.005	ND<0.005	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.01	ND<0.005
	7/19/1999	ND<0.05	<b>0.0055</b>	--	<b>0.02</b>	--	--	ND<0.05	ND<0.005	<b>0.0052</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	ND<0.0025	ND<0.005
	1/11/2000	ND<0.02	ND<0.002	--	<b>0.0073</b>	--	--	ND<0.02	ND<0.002	<b>0.0033</b>	--	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	ND<0.001	ND<0.002
	7/31/2000	ND<0.02	ND<0.002	ND<0.002	<b>0.0038</b>	ND<0.011	ND<0.011	ND<0.01	ND<0.002	<b>0.0041</b>	ND<0.01	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	--	<b>0.0011</b>	ND<0.002
	2/7/2001	ND<0.01	ND<0.001	ND<0.001	<b>0.0013</b>	--	--	ND<0.01	ND<0.001	<b>0.0025</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	<b>0.00055</b>	ND<0.001
	7/24/2001	ND<0.01	ND<0.001	--	<b>0.0024</b>	--	--	ND<0.01	ND<0.001	<b>0.0033</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	--	ND<0.0005	ND<0.001
	5/7/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	<b>0.0037</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.002	--	ND<0.0005	ND<0.001
	9/24/2002	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	<b>0.0036</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.003	--	ND<0.0005	ND<0.001
	5/7/2002DUP	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	<b>0.0037</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.003	--	ND<0.0005	ND<0.001
	9/24/2002DUP	ND<0.01	ND<0.001	ND<1	ND<0.001	--	--	ND<0.01	ND<0.001	<b>0.0035</b>	--	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.003	--	ND<0.0005	ND<0.001
	6/30/2004	ND<0.005	ND<0.005	ND<0.005	<b>0.019</b>	--	--	ND<0.005	--	<b>0.005J</b>	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	<b>0.003J</b>	--	<b>0.003J</b>	ND<0.005
MW-A	2/20/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<0.25
Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-B	2/25/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<0.0005
Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-I	2/19/1991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<0.05
Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-C	3/31/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	7/11/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-D	3/31/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	7/11/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-E	3/31/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Abandoned	7/11/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**NOTES**

Table recreated from Versar, Inc. *Revised Master Work Plan, CENCO Refining Company, Santa Fe Springs, California*, dated January 28, 2000.

All concentrations reported in milligram(s) per liter (mg/L)

Blank = not analyzed

ND< = Not detected above the laboratory reporting limit shown

\*Sample was analyzed by both U.S. EPA Methods 8010/8020 and 8240; highest detection value of the two analyses is shown

NS = Not sampled due to well damage, free product in well, or not scheduled for sampling

(A) = U.S. EPA Method 601/8010

(B) = U.S. EPA Method 602/8020

Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline (Method 8020)

TPHd = Total petroleum hydrocarbons as diesel (Method 8015)

TRPH = ASTM Method 2887 (unless otherwise indicated)

MTBE = Methyl *tert*-butyl ether

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

BDCM = Bromodichloromethane

BCM = Bromochloromethane

c-1,2-DCE = cis-1,2-Dichloroethene

CB = Chlorobenzene

1,2-DCB = 1,2-Dichlorobenzene

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

1,2-DCP = 1,2-Dichloropropane

iso-PB = iso-Propylbenzene

MC = Methylene chloride

n-BB = n-Butylbenzene

n-PB = n-Propylbenzene

p-iso-PT = p-iso-Propyltoluene

sec-BB = sec-Butylbenzene

PCE = Tetrachloroethene

t-1,2-DCE = trans-1,2-Dichloroethene

TCE = Trichloroethene

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

TOX = Total halogenated volatile organics (ASTM Method 2885)

VC = Vinyl chloride

t-BB= Tertiary Butylbenzene

TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	Acetone	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene
Operational Area 1: Bloomfield Property																	
MW-106A	8/2/2006	310	NA	2.6	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/9/2006	82	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/8/2007	270	NA	2.6	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	5/10/2007	210	NA	1.5 J	ND<2.0	ND<5.0	14 J	0.73 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	8/9/2007	270	NA	1.6 J	ND<2.0	ND<5.0	2.0 J	0.86 J	ND<5.0	0.47 J	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/7/2007	240	NA	1.4 J	ND<2.0	ND<5.0	1.7 J	0.79 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/5/2008	220	NA	1.6 J	ND<2.0	ND<5.0	1.5 J	0.95 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	1/19/2009	220	NA	0.46 J	ND<2.0	ND<5.0	0.75 J	0.82 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	4/23/2009	290	NA	1.9 J	ND<2.0	ND<5.0	3.4 J	0.96 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	8/2/2006	770	NA	3.7	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
11/9/2006	780	NA	24	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
2/8/2007	500	NA	80	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
5/10/2007	670	NA	42	ND<2.0	0.87 J	ND<5.0	2.7 J	0.39 J	2.7 J	ND<5.0	ND<2.0	2.5 J	ND	ND<5.0	ND<2.0	ND<2.0	
8/9/2007	1000	NA	61	ND<2.0	1.5 J	3.8 J	0.48 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
11/7/2007	1500	NA	44	ND<2.0	2.0 J	4.4 J	0.59 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
2/5/2008	2800	NA	19	ND<2.0	2.3 J	5.0	0.72 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
1/19/2009	1100	NA	13	ND<2.0	2.3 J	9.0	1.1 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
DUP	1200	NA	12	ND<2.0	2.1 J	9.0	1.2 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
4/23/2009	2400 ZX	NA	79	ND<2.0	2.3 J	6.2	0.77 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
DUP	1300	NA	74	ND<2.0	2.2 J	6.3	0.81 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
MW-203	8/2/2006	240	NA	3.1	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	11/9/2006	260	NA	2.5	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	2/8/2007	150	NA	2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	5/10/2007	170	NA	1.0 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	0.56 J	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	8/9/2007	270	NA	0.88 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	0.50 J	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	11/7/2007	65	NA	0.78 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	2/5/2008	87	NA	1.4 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	1/19/2009	65	NA	0.53 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	4/23/2009	69	NA	0.63 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	Operational Area 2: East Tank Farm Area																
MW-103	8/3/2006	350	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/8/2006	430	NA	4.1	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/8/2007	360	NA	36	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	5/9/2007	220	NA	0.51 J	ND<2.0	ND<5.0	1.9 J	0.39 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	8/8/2007	370	NA	1.3 J	ND<2.0	1.8 J	3.8 J	0.76 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/6/2007	880	NA	11	ND<2.0	3.1 J	5.1	0.84 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	0.32 J
MW-204	10/7/2005	340	ND<10	5.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<5.0	ND<1.0	ND<1.0
	2/15/2006	111	ND<100.0	1.5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0
	8/1/2006	260	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/10/2006	81	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/7/2007	360	NA	4.9	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	NS	NS	NS	NS	ND<2.0	NS	NS	NS	ND<5.0	NS	NS	NS	NS	ND	ND<5.0	ND<2.0	ND<2.0
	NS	NS	NS	NS	ND<2.0	NS	NS	NS	ND<5.0	NS	NS	NS	NS	ND	ND<5.0	ND<2.0	ND<2.0
	11/6/2007	53	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/4/2008	37 J	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	4/23/2009	110	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
W-7	10/6/2006	ND<100	ND<10	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<5.0	ND<1.0	ND<1.0
	2/16/2006	60.9	ND<100.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0
	8/4/2006	ND<50	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/10/2006	ND<50	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/9/2007	ND<50	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	5/8/2007	31 J	NA	0.41 J	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	8/10/2007	ND<50	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/6/2007	ND<50	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/4/2008	ND<50	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	1/13/2009	ND<50	NA	0.35 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
4/21/2009	ND<50	NA	0.31 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
W-12	11/8/2006	1400	NA	16	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/7/2007	4800	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	5/9/2007	220	NA	ND<2.0	ND<2.0	ND<5.0	0.61 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	8/8/2007	1100	NA	ND<2.0	ND<2.0	ND<5.0	0.50 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/6																

TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	Acetone	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene <sup>1</sup>	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene
W-10	11/8/2006	26000	NA	ND<40	ND<40	ND<100	ND<100	ND<100	ND<100	ND<40	ND<100	ND<40	ND<100	ND	ND<100	ND<40	ND<40
	2/9/2007	28000	NA	6400	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	DUP	26000	NA	5100	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	5/11/2007	7900	NA	430	ND<4.0	8.4 J	5.4 J	0.68 J	ND<10	ND<4.0	2.0 J	ND<4.0	ND<10	ND	ND<10	ND<4.0	ND<4.0
	DUP	7800	NA	500	ND<10	ND<25	5.8 J	ND<25	ND<25	ND<10	ND<25	ND<10	ND<25	ND	ND<25	ND<10	ND<10
	8/9/2007	5400	NA	590	ND<10	5.7 J	4.8 J	ND<25	ND<25	ND<10	ND<25	ND<10	ND<25	ND	ND<25	ND<10	ND<10
	DUP	5700	NA	570	ND<10	5.6 J	4.7 J	ND<25	ND<25	ND<10	ND<25	ND<10	ND<25	ND	ND<25	ND<10	ND<10
	11/9/2007	11000	NA	4700	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	DUP	12000	NA	5600	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	2/8/2008	28000	NA	7200	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	DUP	25000	NA	7600	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	1/21/2009	20000	NA	8100	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	DUP	20000	NA	7600	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	4/27/2009	15000	NA	5100	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	DUP	16000	NA	7400	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200
	W-17A	2/14/2008	100	NA	ND<2.0	ND<2.0	ND<5.0	0.27 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0
1/16/2009		78	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
4/22/2009		180 ZX	NA	4.5	ND<2.0	0.41 J	1.5 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
W-17B	2/14/2008	39 J	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	1/16/2009	38 J	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	4/22/2009	ND<5.0	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
W-17C	2/14/2008	36 J	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	1/16/2009	29 J	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	4/23/2009	ND<5.0	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
Operational Area 4: West Tank Farm Area																	
MW-101	8/3/2006	2700	NA	89	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/9/2006	1900	NA	100	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/12/2007	2100	NA	240	ND<8.0	ND<20	ND<20	ND<20	ND<20	ND<8.0	ND<20	ND<8.0	ND<20	ND	ND<20	ND<8.0	ND<8.0
	5/11/2007	1100	NA	29	ND<2.0	ND<5.0	1.2 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	8/8/2007	2600	NA	31	ND<2.0	ND<5.0	1.0 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
MW-105	11/8/2007	830	NA	62	ND<2.0	ND<5.0	1.2 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	10/6/2005	300	ND<10	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<5.0	ND<1.0	ND<1.0
	DUP	320	ND<10	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<5.0	ND<1.0	ND<1.0
	2/15/2006	205	ND<100.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0
	DUP	204	ND<100.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0
	8/1/2006	320	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	DUP	330	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/8/2006	230	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	DUP	230	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/7/2007	160	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	DUP	160	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	5/9/2007	150	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	DUP	190	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	8/7/2007	250	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	DUP	250	NA	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	11/5/2007	160	NA	0.42 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	DUP	180	NA	0.35 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
	2/5/2008	170	NA	1.2 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
DUP	190	NA	1.1 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
1/15/2009	160	NA	0.85 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
DUP	180	NA	0.71 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
4/22/2009	100	NA	0.50 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
DUP	120 ZX	NA	0.66 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0
MW-201	10/7/2005	3400	93	740	ND<5.0	15	16	ND<5.0	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND	ND<25	ND<5.0	ND<5.0	
	2/15/2006	1890	ND<100.0	128	ND<5.0	ND<5.0	1.1 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	
	8/2/2006	1000	NA	73	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/9/2006	1100	NA	58	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/7/2007	1100	NA	94	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND	ND<5.0	ND<2.0	ND<2.0	
	5/9/2007	830	NA	47	ND<2.0	ND<5.0	0.69 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND	ND<5.0	ND<2.0	ND<2.0	
	8/8/2007	1300	NA	44	ND<2.0	ND<5.0	1.2 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/6/2007	1500	NA	110	ND<2.0	1.6 J	2.2 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/7/2008	670	NA	39	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.					

TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPHg	Acetone	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene <sup>1</sup>	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene	
Operational Area 5: Lakeland Property																		
MW-501A	8/3/2006	24000	NA	6300	ND<2.0	32	24	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/10/2006	13000	NA	3300	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/12/2007	13000	NA	3800	ND<40	ND<100	ND<100	ND<100	ND<100	ND<40	ND<100	ND<40	ND<100	ND	ND<100	ND<40	ND<40	
	5/11/2007	9100	NA	2000	ND<100	22 J	16 J	ND<250	ND<250	ND<100	ND<250	ND<100	ND<250	ND	ND<250	ND<100	ND<100	
	8/10/2007	7100	NA	1100	ND<20	35 J	23 J	ND<50	ND<50	ND<20	ND<50	ND<20	ND<50	ND	ND<50	ND<20	ND<20	
	11/8/2007	7700	NA	1400	ND<40	27 J	20 J	ND<100	ND<100	ND<40	ND<100	ND<40	ND<100	ND	ND<100	ND<40	ND<40	
MW-502	10/5/2005	15000	ND<1000	900	ND<100	ND<100	ND<100	ND<100	ND<50	ND<100	ND<100	ND<100	ND<1000	ND	ND<500	ND<100	ND<100	
	2/14/2006	47600	ND<1000.0	1280	ND<50.0	32 J	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND	ND<50.0	ND<50.0	ND<50.0	
	8/4/2006	20000	NA	2500	ND<2.0	11	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/10/2006	35000	NA	1800	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/9/2007	15000	NA	2200	ND<400	ND<1000	ND<1000	ND<1000	ND<1000	ND<400	ND<1000	ND<400	ND<1000	ND	ND<1000	ND<400	ND<400	
	5/11/2007	25000	NA	4000	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200	
	8/10/2007	30000	NA	3300	ND<100	20 J	ND<250	ND<250	ND<250	ND<100	ND<250	ND<100	ND<250	ND	ND<250	ND<100	ND<100	
	11/8/2007	19000	NA	2100	ND<400	ND<1000	ND<1000	ND<1000	ND<1000	ND<400	ND<1000	ND<400	ND<1000	ND	ND<1000	ND<400	ND<400	
MW-503B	2/11/2008	26000	NA	3900	ND<200	ND<500	ND<500	ND<500	ND<500	ND<200	ND<500	ND<200	ND<500	ND	ND<500	ND<200	ND<200	
	10/5/2005	5400	ND<200	1100	ND<20	ND<20	ND<20	ND<20	ND<10	ND<20	ND<20	ND<200	ND	ND<100	ND<20	ND<20		
	2/14/2006	5450	ND<1000.0	331	ND<50.0	ND<50.0	18 J	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND	ND<50.0	ND<50.0	ND<50.0		
	8/4/2006	4700	NA	31	ND<2.0	ND<5.0	18	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/10/2006	3500	NA	26	ND<2.0	21	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/9/2007	1600	NA	59	ND<2.0	ND<5.0	17	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	5/11/2007	1800	NA	60	ND<2.0	ND<5.0	18	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	8/10/2007	1800	NA	80	ND<2.0	ND<5.0	23	2.9 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/8/2007	2400	NA	270	ND<8.0	4.8 J	22	2.5 J	ND<20	ND<8.0	ND<20	ND<8.0	ND<20	ND	ND<20	ND<8.0	ND<8.0	
	2/11/2008	2700	NA	220	ND<8.0	4.6 J	21	2.2 J	ND<20	ND<8.0	ND<20	ND<8.0	ND<20	ND	ND<20	ND<8.0	ND<8.0	
	1/21/2009	6200	NA	410	ND<10	16 J	23 J	2.4 J	ND<25	ND<10	ND<25	ND<10	ND<25	ND<25	ND<25	ND<10	ND<10	
	4/27/2009	4000 Z9	NA	210	ND<2.0	12	19	1.9 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	
Operational Area 6: Former AST Area at Walker Property																		
W-3A	2/16/2006	306	ND<100.0	ND<1.0	ND<5.0	ND<5.0	23	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	
	8/3/2006	39000	NA	23	ND<2.0	13	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/9/2006	8100	NA	ND<2.0	ND<2.0	23	15	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/8/2007	1400	NA	ND<2.0	ND<2.0	11	6.7	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	5/10/2007	14000	NA	0.66 J	ND<2.0	8.6	6.1	1.4 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	8/9/2007	1900	NA	0.79 J	ND<2.0	6.0	5.8	1.1 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/7/2007	1500	NA	0.62 J	ND<2.0	ND<5.0	5.2	0.90 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/7/2008	180	NA	ND<2.0	ND<2.0	5.4	6.2	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
Offsite Wells: Walker Property																		
W-1	10/6/2005	310	20	43	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	1.2	ND<1.0	ND<1.0	ND	ND<5.0	ND<1.0	ND<1.0	
	2/15/2006	266	ND<100.0	32	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	8/3/2006	1100	NA	86	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	5.6	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/9/2006	470	NA	100	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/8/2007	500	NA	77	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	5/10/2007	890	NA	110	ND<2.0	1.4 J	3.4 J	0.58 J	ND<5.0	ND<2.0	1.9 J	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	8/9/2007	1100	NA	140	ND<2.0	3.0 J	5.4	0.77 J	ND<5.0	ND<2.0	5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	11/7/2007	1200	NA	140	0.30 J	3.8 J	5.8	0.99 J	ND<5.0	ND<2.0	6.1	ND<2.0	1.7 J	ND	5.0	0.37 J	ND<2.0	
	2/7/2008	1000	NA	96	ND<2.0	ND<5.0	5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	1/20/2009	230	NA	15	ND<2.0	ND<5.0	0.74 J	0.52 J	ND<5.0	0.37 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	DUP	220	NA	19	ND<2.0	ND<5.0	1.1 J	0.76 J	ND<5.0	0.49 J	1.1 J	0.54 J	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	4/24/2009	180	NA	3.9	ND<2.0	ND<5.0	0.48 J	0.71 J	ND<5.0	0.44 J	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	10/6/2005	350	ND<10	31	ND<1.0	ND<1.0	1.1	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<5.0	ND<1.0	ND<1.0	
	2/15/2006	501	ND<100.0	43	ND<5.0	ND<5.0	2.0 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	
8/3/2006	2800	NA	3.5	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
11/9/2006	230	NA	6.1	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
2/8/2007	200	NA	3.1	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
5/10/2007	170	NA	1.5 J	ND<2.0	0.43 J	1.3 J	0.49 J	ND<5.0	ND<2.0	0.56 J	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
8/9/2007	280	NA	1.0 J	ND<2.0	0.96 J	2.9 J	0.68 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
11/7/2007	180	NA	1.9 J	ND<2.0	ND<5.0	2.1 J	0.59 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
2/7/2008	210	NA	4.4	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
DUP	250	NA	3.9	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0		
1/19/2009	140	NA	0.51 J	ND<2.0	ND<5.0	1.4 J	0.37 J	ND<5.0	ND<2.0	ND<5.0	ND<2.0	0.50 J	4.3 J	ND<5.0	ND<2.0	ND<2.0		
4/27/2009	92 ZX	NA	ND<2.0	ND<2.0	ND<5.0	0.55 J	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0		
EW-1	11/10/2006	4800	NA	65	ND<2.0	18	34	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	2/9/2007	4100	NA	41	ND<2.0	14	27	ND<5.0	ND<5.0	ND<2.0	ND<5.0	ND<2.0	ND<5.0	ND	ND<5.0	ND<2.0	ND<2.0	
	5/10/2007	3300	NA	19	ND<4.0	12	25	3.9 J	ND<									





TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	c-1,2-Dichloroethene	t-1,2-Dichloroethene	1,2-Dichloropropane	2,2-Dichloropropane	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene	
W-10	11/8/2006	ND<40	ND<40	ND<40	ND<40	ND<100	ND<40	ND<40	ND<40	ND<40	570	51	ND<40	ND<100	340	70	ND<40	
	2/9/2007	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	520	ND<200	ND<200	ND<500	ND<500	ND<200	ND<200	
	DUP	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	410	ND<200	ND<200	ND<500	ND<500	ND<200	ND<200	
	5/11/2007	ND<4.0	ND<4.0	8.2	1.2 J	ND<10	6.0	ND<4.0	18	ND<4.0	100	19	4.6	ND<10	100	30	ND<4.0	
	DUP	ND<10	ND<10	8.8 J	1.4 J	ND<25	6.6 J	ND<10	20	ND<10	110	21	5.0 J	ND<25	150	33	ND<10	
	8/9/2007	ND<10	ND<10	8.0 J	ND<10	ND<25	6.4 J	ND<10	25	ND<10	82	16	2.8 J	ND<25	59	22	ND<10	
	DUP	ND<10	ND<10	8.4 J	ND<10	ND<25	7.0 J	ND<10	24	ND<10	79	16	2.8 J	ND<25	57	22	ND<10	
	11/9/2007	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	330	31 J	ND<200	ND<500	210 J	40 J	ND<200	
	DUP	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	380	40 J	ND<200	ND<500	240 J	49 J	ND<200	
	2/8/2008	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	300	ND<200	ND<200	ND<500	140 J	32 J	ND<200	
	DUP	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	330	ND<200	ND<200	ND<500	170 J	37 J	ND<200	
	1/21/2009	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	440	36 J	ND<200	ND<500	230 J	51 J	ND<200	
	DUP	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	410	35 J	ND<200	ND<500	230 J	49 J	ND<200	
	4/27/2009	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	350	34 J	ND<200	ND<500	220 J	50 J	ND<200	
DUP	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	490	35 J	ND<200	ND<500	270 J	61 J	ND<200		
W-17A	2/14/2008	ND<2.0	ND<2.0	0.47 J	1.4 J	0.6 J	6.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	1/16/2009	ND<2.0	ND<2.0	0.46 J	1.4 J	0.6 J	6.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	0.41 J	0.27 J	
	4/22/2009	ND<2.0	ND<2.0	0.51 J	0.65 J	2.3 J	7.7	1.9 J	ND<2.0	ND<2.0	ND<2.0	5.9	ND<2.0	ND<5.0	ND<5.0	5.8	ND<2.0	
W-17B	2/14/2008	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	1.4 J	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	1/16/2009	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
W-17C	2/14/2008	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	1/16/2009	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	1.2 J	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	4/23/2009	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1.1 J	ND<5.0	ND<2.0	ND<2.0	
Operational Area 4: West Tank Farm Area																		
MW-101	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	8.4	26	2.4	ND<2.0	ND<2.0	3.6	2.7	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	6.5	33	2.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	
	2/12/2007	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	47	ND<8.0	ND<8.0	ND<8.0	ND<8.0	4.8	ND<8.0	ND<20	ND<20	ND<8.0	ND<8.0	
	5/11/2007	ND<2.0	ND<2.0	1.5 J	0.39 J	9.2	26	2.6	ND<2.0	ND<2.0	1.0 J	1.4 J	ND<2.0	ND<5.0	0.76 J	0.46 J	0.37 J	
	8/8/2007	ND<2.0	ND<2.0	1.0 J	0.46 J	7.1	21	ND<2.0	ND<2.0	0.95 J	1.3 J	ND<2.0	ND<2.0	ND<5.0	ND<5.0	0.35 J	0.43 J	
	11/8/2007	ND<2.0	ND<2.0	1.2 J	ND<2.0	5.7	31	ND<2.0	ND<2.0	1.7 J	2.0 J	ND<2.0	ND<2.0	ND<5.0	ND<5.0	0.60 J	ND<2.0	
MW-105	10/8/2005	ND<1.0	ND<1.0	5.8	10	0.58	10	3.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
	DUP	ND<1.0	ND<1.0	5.7	0.55	9.6	10	3.9	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4.5	
	2/15/2006	ND<5.0	ND<5.0	5.7	ND<5.0	7.3	8.8	3.2 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.4 J	
	DUP	ND<5.0	ND<5.0	5.2	ND<5.0	7.4	8.8	3.0 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.0 J	
	8/1/2006	ND<2.0	ND<2.0	3.9	ND<2.0	8.9	9.5	3.9	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	6.0	
	DUP	ND<2.0	ND<2.0	3.9	ND<2.0	8.5	10	3.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	5.4	
	11/8/2006	ND<2.0	ND<2.0	3.8	ND<2.0	13	8.9	4.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	17	
	DUP	ND<2.0	ND<2.0	3.8	ND<2.0	12	8.9	4.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	16	
	2/7/2007	ND<2.0	ND<2.0	4.2	ND<2.0	12	12	4.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	19	
	DUP	ND<2.0	ND<2.0	3.7	ND<2.0	10	12	4.3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	15	
	5/9/2007	ND<2.0	ND<2.0	2.6	0.31 J	5.9	7.5	2.7	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1.7 J	ND<5.0	ND<2.0	12	
	DUP	ND<2.0	ND<2.0	2.6	0.34 J	6.0	7.5	2.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1.8 J	ND<5.0	ND<2.0	12	
	8/7/2007	ND<2.0	0.43 J	3.7	0.60 J	11	11	5.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	23	
	DUP	ND<2.0	ND<2.0	3.8	0.53 J	11	12	5.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	21	
	11/5/2007	ND<2.0	ND<2.0	3.1	0.62 J	14	9.7	5.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	0.56 J	ND<2.0	23	
	DUP	ND<2.0	ND<2.0	3.3	0.53 J	12	9.6	5.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	19	
2/5/2008	ND<2.0	ND<2.0	2.6	1.1 J	14	11	6.9	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	25		
DUP	ND<2.0	ND<2.0	2.6	1.1 J	14	10	6.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	24		
1/15/2009	ND<2.0	ND<2.0	2.6	1.0 J	15	10	3.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	41		
DUP	ND<2.0	ND<2.0	2.5	0.86 J	13	9.0	2.9	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	35		
4/22/2009	ND<2.0	ND<2.0	1.7 J	1.0 J	7.0	7.3	2.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	16		
DUP	ND<2.0	ND<2.0	2.4	1.2 J	9.9	9.5	3.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<2.0	22		
MW-201	10/7/2005	ND<5.0	ND<5.0	ND<5.0	34	ND<5.0	49	ND<5.0	ND<5.0	470	85	21	ND<50	120	86	ND<5.0		
	2/15/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	8.1	ND<5.0	ND<5.0	ND<5.0	15	5.3	ND<5.0	ND<5.0	ND<5.0	3.3 J	ND<5.0		
	8/2/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	13	ND<2.0	ND<2.0	ND<2.0	8.2	4.3	ND<2.0	ND<5.0	ND<5.0	3.0	ND<2.0		
	11/9/2006	ND<2.0	ND<2.0	5.1	ND<2.0	25	ND<2.0	ND<2.0	ND<2.0	49	13	3.3	ND<5.0	22	16	ND<2.0		
	2/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	25	ND<2.0	ND<2.0	ND<2.0	8.6	3.0	ND<2.0	ND<5.0	ND<5.0	2.3	ND<2.0		
	5/9/2007	ND<2.0	ND<2.0	0.40 J	0.83 J	3.1 J	38	ND<2.0	ND<2.0	4.0	2.7	0.34 J	1.7 J	ND<5.0	1.3 J	ND<2.0		
	8/8/2007	ND<2.0	ND<2.0	0.37 J	1.0 J	3.2 J	31	ND<2.0	ND<2.0	5.1	5.3	0.64 J	ND<5.0	ND<5.0	2.3	ND<2.0		
	11/6/2007	ND<2.0	ND<2.0	0.52 J	1.1 J	4.5 J	38	0.91 J	ND<2.0	5.7	13	2.0	ND<5.0	25	9.9	ND<2.0		
	2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	33	ND<2.0	ND<2.0	3.2	2.7	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0		
	1/20/2009	ND<2.0	ND<2.0	ND<2.0	0.73 J	2.1	16	0.60 J	ND<2.0	17	5.8	2.4	ND<5.0	ND<5.0	5.3	ND<2.0		
4/28/2009	ND<																	

TABLE D2-B  
 HISTORICAL GROUNDWATER DATA  
 TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
 SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	c-1,2-Dichloroethene	t-1,2-Dichloroethene	1,2-Dichloropropane	2,2-Dichloropropane	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene
<b>Operational Area 5: Lakeland Property</b>																	
MW-501A	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	170	120	ND<2.0	ND<5.0	32	140	ND<2.0
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	100	140	ND<2.0	ND<5.0	ND<5.0	250	ND<2.0
	2/12/2007	ND<40	ND<40	ND<40	ND<40	ND<100	ND<40	ND<40	ND<40	ND<40	130	160	ND<40	ND<100	ND<100	380	ND<40
	5/11/2007	ND<100	ND<100	ND<100	ND<100	ND<250	ND<100	ND<100	ND<100	ND<100	84 J	130 J	ND<100	ND<250	ND<250	250	ND<100
	8/10/2007	ND<20	ND<20	ND<20	ND<20	ND<50	ND<20	ND<20	ND<20	ND<20	49	170	ND<20	ND<50	ND<50	300	ND<20
	11/8/2007	ND<40	ND<40	ND<40	ND<40	ND<100	ND<40	ND<40	ND<40	ND<40	13 J	150	ND<40	ND<100	ND<100	290	ND<40
MW-502	10/5/2005	ND<100	ND<100	ND<100	ND<50	ND<100	ND<100	ND<100	ND<100	ND<100	430	ND<100	ND<100	ND<1000	ND<1000	110	ND<100
	2/14/2006	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	616	87	ND<50.0	ND<50.0	183	117	ND<50.0
	8/4/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	160	55	9.4	ND<5.0	130	52	ND<2.0
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	820	150	ND<2.0	ND<5.0	290	180	ND<2.0
	2/9/2007	ND<400	ND<400	ND<400	ND<400	ND<1000	ND<400	ND<400	ND<400	ND<400	500	ND<400	ND<400	ND<1000	ND<1000	ND<400	ND<400
	5/11/2007	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	500	63 J	ND<200	ND<500	170 J	65 J	ND<200
	8/10/2007	ND<100	ND<100	ND<100	ND<100	ND<250	ND<100	ND<100	ND<100	ND<100	420	74 J	ND<100	ND<250	92 J	72 J	ND<100
	11/8/2007	ND<400	ND<400	ND<400	ND<400	ND<1000	ND<400	ND<400	ND<400	ND<400	530	96 J	ND<400	ND<1000	230 J	140 J	ND<400
	2/11/2008	ND<200	ND<200	ND<200	ND<200	ND<500	ND<200	ND<200	ND<200	ND<200	430	100 J	ND<200	ND<500	270 J	140 J	ND<200
	10/5/2005	ND<20	ND<20	ND<20	ND<10	ND<20	ND<20	ND<20	ND<20	ND<20	73	61	ND<20	ND<200	ND<200	90	ND<20
MW-503B	2/14/2006	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	12 J	69	ND<50.0	ND<50.0	ND<50.0	56	ND<50.0
	8/4/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	7.2	3.1	ND<2.0	ND<2.0	3.5	47	ND<2.0	ND<5.0	ND<5.0	29	ND<2.0
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	4.9	ND<2.0	ND<2.0	ND<2.0	4.7	70	ND<2.0	ND<5.0	ND<5.0	83	ND<2.0
	2/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	11	2.2	ND<2.0	ND<2.0	ND<2.0	45	ND<2.0	ND<5.0	ND<5.0	29	ND<2.0
	5/11/2007	ND<2.0	ND<2.0	0.63 J	0.63 J	0.47 J	17	2.6	ND<2.0	ND<2.0	2.1	40	ND<2.0	ND<5.0	1.5 J	ND<2.0	ND<2.0
	8/10/2007	ND<2.0	ND<2.0	0.48 J	0.48 J	0.76 J	19	2.0	ND<2.0	ND<2.0	1.7 J	52	ND<2.0	ND<5.0	ND<5.0	32	ND<2.0
	11/8/2007	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<20	15	ND<8.0	ND<8.0	ND<8.0	3.7 J	44	7.0 J	ND<20	11 J	33	ND<8.0
	2/11/2008	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<20	21	1.4 J	ND<8.0	ND<8.0	3.4 J	35	6.6 J	ND<20	18 J	35	ND<8.0
	1/21/2009	ND<10	ND<10	ND<10	ND<10	ND<25	9.2 J	ND<10	ND<10	ND<10	39	110	2.6 J	ND<25	36	200	ND<10
	4/27/2009	ND<2.0	ND<2.0	ND<2.0	1.2 J	ND<5.0	4.8	ND<2.0	ND<2.0	ND<2.0	24	100	1.9 J	ND<5.0	29	180	ND<2.0
<b>Operational Area 6: Former AST Area at Walker Property</b>																	
W-3A	2/16/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	19	8.2	ND<5.0	ND<5.0	27	ND<5.0
	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	19	ND<2.0	ND<5.0	38	25	ND<2.0
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	12	7.7	ND<5.0	37	26	ND<2.0
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	11	ND<2.0	ND<5.0	30	14	ND<2.0
	5/10/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	12	ND<2.0	ND<5.0	16	15	ND<2.0
	8/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	14	1.2 J	ND<5.0	14	17	ND<2.0
	11/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	12	0.46 J	ND<5.0	ND<5.0	17	ND<2.0
	2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	13	ND<2.0	ND<5.0	ND<5.0	19	ND<2.0
<b>Off-Site Wells: Walker Property</b>																	
W-1	10/6/2005	ND<1.0	1.1	ND<1.0	ND<0.50	ND<1.0	ND<1.0	1.6	ND<1.0	ND<1.0	ND<1.0	4.4	ND<1.0	ND<10	ND<10	ND<1.0	ND<1.0
	2/15/2006	ND<5.0	ND<5.0	ND<5.0	1.3 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.3 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	16	ND<2.0	ND<5.0	ND<2.0	11	ND<2.0
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	18	ND<2.0	ND<5.0	ND<2.0	9.4	ND<2.0
	5/10/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	0.61 J	21	1.1 J	ND<5.0	1.0 J	16	ND<2.0
	8/9/2007	ND<2.0	ND<2.0	ND<2.0	0.32 J	ND<5.0	ND<2.0	0.47 J	ND<2.0	ND<2.0	0.84 J	33	ND<2.0	ND<5.0	1.1 J	30	ND<2.0
	11/7/2007	0.69 J	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	0.70 J	0.41 J	0.82 J	1.2 J	35	ND<2.0	ND<5.0	1.6 J	37	ND<2.0
	2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	25	ND<2.0	ND<5.0	ND<2.0	24	ND<2.0
	1/20/2009	ND<2.0	0.58 J	0.58 J	ND<2.0	ND<5.0	ND<2.0	0.87 J	ND<2.0	ND<2.0	ND<2.0	3.6	ND<2.0	ND<5.0	ND<5.0	1.8 J	ND<2.0
	DUP	ND<2.0	0.81 J	0.61 J	ND<2.0	ND<5.0	ND<2.0	0.4 J	1.1 J	ND<2.0	ND<2.0	4.8	1.3 J	ND<5.0	ND<2.0	2.5	ND<2.0
	4/24/2009	ND<2.0	ND<2.0	0.74 J	ND<2.0	ND<5.0	ND<2.0	1.4 J	ND<2.0	ND<2.0	ND<2.0	1.8 J	0.28 J	ND<5.0	ND<2.0	0.71 J	ND<2.0
	10/6/2005	ND<1.0	ND<1.0	1.7	ND<0.50	ND<1.0	ND<1.0	6.4	ND<1.0	ND<1.0	ND<1.0	5.9	ND<1.0	ND<10	ND<10	4.2	ND<1.0
	2/15/2006	ND<5.0	ND<5.0	2.5 J	ND<5.0	ND<5.0	ND<5.0	2.8 J	ND<5.0	ND<5.0	ND<5.0	12	ND<5.0	ND<1.0	ND<5.0	7.5	ND<5.0
	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.5	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	5.1	ND<2.0	ND<2.0	ND<2.0	4.2	ND<2.0	ND<5.0	ND<5.0	3.2	ND<2.0
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	4.7	ND<2.0	ND<2.0	ND<2.0	3.7	ND<2.0	ND<5.0	ND<5.0	2.8	ND<2.0
	5/10/2007	ND<2.0	0.55 J	ND<2.0	ND<2.0	ND<5.0	ND<2.0	3.8	ND<2.0	ND<2.0	ND<2.0	5.2	ND<2.0	ND<5.0	ND<5.0	3.9	ND<2.0
8/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	8.7	ND<2.0	ND<5.0	ND<5.0	6.6	ND<2.0	
11/7/2007	ND<2.0	ND<2.0	0.36 J	ND<2.0	ND<5.0	ND<2.0	3.6	ND<2.0	ND<2.0	ND<2.0	5.6	ND<2.0	ND<5.0	ND<5.0	1.6 J	ND<2.0	
2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	4.4	ND<2.0	ND<2.0	ND<2.0	9.0	ND<2.0	ND<5.0	ND<5.0	7.1	ND<2.0	
DUP	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	4.0	ND<2.0	ND<2.0	ND<2.0	7.8	ND<2.0	ND<5.0	ND<5.0	6.1	ND<2.0	
1/19/2009	ND<2.0	ND<2.0	1.0 J	ND<2.0	ND<1.0 M	7.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	5.6	0.45 J	ND<5.0 R	0.43 J	2.8	ND<2.0	
4/27/2009	ND<2.0	ND<2.0	0.61 J	ND<2.0	ND<5.0	ND<2.0	7.3	ND<2.0	ND<2.0	ND<2.0	2.3	ND<2.0	ND<5.0	ND<5.0	1.1 J	ND<2.0	
EW-1	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	6.3	8.4									



TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPH, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Toluene	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	p/m-Xylenes	o-Xylene	Total Xylenes	Diisopropyl Ether (DIPE)	Tert-Amyl Methyl Ether (TAME)	Methyl tert-Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)	1,4-Dioxane		
<b>Operational Area 1: Bloomfield Property</b>																			
MW-106A	8/2/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	10	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	7.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	13	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	0.61	
	5/10/2007	ND<2.0	ND<2.0	0.28 J	ND<5.0	ND<10	ND<2.0	ND<2.0	7.9	ND<2.0	ND<2.0	ND<4.0	0.36 J	ND<5.0	ND<5.0	ND<5.0	20 J	NA	
	8/9/2007	ND<2.0	ND<2.0	0.45 J	ND<5.0	ND<10	ND<2.0	ND<2.0	12	ND<2.0	ND<2.0	ND<4.0	0.54 J	ND<5.0	ND<5.0	ND<5.0	19 J	NA	
	11/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	9.9	ND<2.0	ND<2.0	ND<4.0	0.50 J	ND<5.0	ND<5.0	ND<5.0	20 J	NA	
	2/5/2008	ND<2.0	ND<2.0	0.29 J	ND<5.0	ND<10	ND<2.0	ND<2.0	10	ND<2.0	ND<2.0	ND<4.0	0.46 J	ND<5.0	ND<5.0	ND<5.0	16 J	NA	
	1/19/2009	ND<2.0	ND<2.0	0.29 J	ND<5.0	ND<10	ND<2.0	ND<2.0	6.3	ND<2.0	ND<2.0	ND<4.0	0.31 J	ND<5.0	ND<5.0	ND<5.0	17 J	NA	
	4/23/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	10	ND<2.0	ND<2.0	ND<4.0	0.26 J	ND<5.0	ND<5.0	ND<5.0	18 J	NA	
	MW-107A	8/2/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	3.4	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
11/9/2006		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	9.1	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
2/8/2007		ND<2.0	ND<2.0	3.9	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	25	ND<2.0	26	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<0.48	
5/10/2007		1.0 J	ND<2.0	3.5	ND<5.0	ND<10	ND<2.0	0.29 J	2.0 J	17	ND<2.0	17	ND<5.0	ND<5.0	ND<5.0	ND<5.0	21 J	NA	
8/9/2007		2.0	ND<2.0	4.8	ND<5.0	ND<10	ND<2.0	0.33 J	2.3 J	41	ND<2.0	41	ND<5.0	ND<5.0	ND<5.0	ND<5.0	18 J	NA	
11/7/2007		4.2	ND<2.0	3.7	ND<5.0	ND<10	ND<2.0	0.49 J	4.4 J	26	ND<2.0	26	ND<5.0	ND<5.0	ND<5.0	ND<5.0	35 J	NA	
2/5/2008		3.0	ND<2.0	3.2	ND<5.0	ND<10	ND<2.0	0.38 J	5.0	12	ND<2.0	12	ND<5.0	ND<5.0	ND<5.0	ND<5.0	37 J	NA	
1/19/2009		1.9 J	ND<2.0	2.0	ND<5.0	ND<10	ND<2.0	0.29 J	2.0 J	9.9	0.43 J	10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	66	NA	
DUP		1.9 J	ND<2.0	2.1	ND<5.0	ND<10	ND<2.0	0.27 J	1.8 J	9.6	0.38 J	10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	62	NA	
4/23/2009		1.2 J	ND<2.0	3.4	ND<5.0	ND<10	ND<2.0	3.0	1.3 J	91	0.47 J	92	ND<5.0	ND<5.0	ND<5.0	ND<5.0	66	NA	
DUP	1.1 J	ND<2.0	3.6	ND<5.0	ND<10	ND<2.0	3.2	1.3 J	94	0.47 J	94	ND<5.0	ND<5.0	ND<5.0	ND<5.0	67	NA		
MW-203	8/2/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	11	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	10	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	9.7	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	1.9	
	5/10/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	7.8	ND<2.0	ND<2.0	ND<4.0	0.41 J	ND<5.0	ND<5.0	ND<5.0	0.70 J	28 J	NA
	8/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	8.5	ND<2.0	ND<2.0	ND<4.0	0.47 J	ND<5.0	ND<5.0	ND<5.0	0.59 J	27 J	NA
	11/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	8.0	ND<2.0	ND<2.0	ND<4.0	0.47 J	ND<5.0	ND<5.0	ND<5.0	0.69 J	27 J	NA
	2/5/2008	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	8.7	ND<2.0	ND<2.0	ND<4.0	0.47 J	ND<5.0	ND<5.0	ND<5.0	0.63 J	32 J	NA
	1/19/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	7.6	ND<2.0	ND<2.0	ND<4.0	0.58 J	ND<5.0	ND<5.0	ND<5.0	0.84 J	40 J	NA
	4/23/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	4.9 J	ND<2.0	ND<2.0	ND<4.0	0.36 J	ND<5.0	ND<5.0	ND<5.0	3.1 J	36 J	NA
	<b>Operational Area 2: East Tank Farm Area</b>																		
MW-103	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	71	200	NA	
	11/8/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	41	160	NA	
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	26	190	2.0	
	5/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	12	85	NA	
	8/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	0.70 J	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	14	110	NA	
	11/6/2007	0.49 J	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	0.24 J	0.39 J	ND<5.0	2.8	0.40 J	3.2 J	ND<5.0	ND<5.0	20	160	NA	
MW-204	10/7/2005	ND<1.0	ND<1.0	ND<1.0	ND<5.0	ND<10	ND<2.0	ND<2.0	2.3	1.2	ND<0.50	2.1	ND<2.0	ND<2.0	ND<1.0	90	NA		
	2/15/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.6 J	1.2 J	ND<5.0	1.4 J	ND<5.0	1.4 J	ND<1.0	ND<1.0	ND<1.0	91	NA		
	8/1/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	14	6.7	ND<5.0	8.1	ND<2.0	8.2	ND<5.0	67	NA		
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
	2/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	25	16	ND<5.0	14	ND<2.0	15	ND<5.0	ND<5.0	64	1.4	
	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	11/6/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	0.65 J	0.42 J	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	81	NA	
	2/4/2008	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	0.38 J	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	71	NA	
	4/23/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	0.74 J	0.84 J	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	71	NA	
	W-7	10/6/2006	ND<1.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<10	NA
2/16/2006		ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.1 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<10	NA		
8/4/2006		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
11/10/2006		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
2/9/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	2.6	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<0.48	
5/8/2007		0.45 J	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	1.44 J	0.35 J	ND<5.0	1.4 J	2.2 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
8/10/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
11/6/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
2/4/2008		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
1/13/2009		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
4/21/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
W-12	11/8/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	55	NA	
	2/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND&lt										

TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Toluene	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	p/m-Xylenes	o-Xylene	Total Xylenes	Diisopropyl Ether (DIPE)	Tert-Amyl Methyl Ether (TAME)	Methyl tert-Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)	1,4-Dioxane
W-10	11/8/2006	ND<40	ND<40	ND<40	ND<100	ND<200	360	110	ND<100	2100	820	2920	ND<100	ND<100	ND<100	ND<1000	NA
	2/9/2007	2200	ND<200	ND<200	ND<500	ND<1000	280	ND<200	ND<500	2200	710	2910	ND<500	ND<500	ND<500	ND<5000	6.4
	DUP	1600	ND<200	ND<200	ND<500	ND<1000	260	ND<200	ND<500	1800	570	2370	ND<500	ND<500	ND<500	ND<5000	7.7
	5/11/2007	140	ND<4.0	ND<4.0	ND<10	ND<20	130	48	3.6 J	480	130	610	ND<10	ND<10	ND<10	84 J	NA
	DUP	160	ND<10	ND<10	ND<25	ND<50	150	53	3.9 J	540	150	690	ND<25	ND<25	ND<25	85 J	NA
	8/9/2007	20	ND<10	ND<10	ND<25	ND<50	90	33	3.0 J	330	40	370	ND<25	ND<25	ND<25	68 J	NA
	DUP	17	ND<10	ND<10	ND<25	ND<50	89	32	4.0 J	320	43	363	ND<25	ND<25	ND<25	71 J	NA
	11/9/2007	460	ND<200	ND<200	ND<500	ND<1000	190 J	55 J	ND<500	1300	180 J	1480	ND<500	ND<500	ND<500	ND<5000	NA
	DUP	620	ND<200	ND<200	ND<500	ND<1000	220	68 J	ND<500	1500	240	1740	ND<500	ND<500	ND<500	ND<5000	NA
	2/8/2008	280	ND<200	ND<200	ND<500	ND<1000	140 J	38 J	ND<500	1300	190 J	1490	ND<500	ND<500	ND<500	ND<5000	NA
	DUP	310	ND<200	ND<200	ND<500	ND<1000	150 J	42 J	ND<500	1400	200	1600	ND<500	ND<500	ND<500	ND<5000	NA
	1/21/2009	73 J	ND<200	ND<200	ND<500	ND<1000	230	49 J	ND<500	1400	ND<200	1400	ND<500	ND<500	ND<500	ND<5000	NA
	DUP	63 J	ND<200	ND<200	ND<500	ND<1000	220	45 J	ND<500	1300	ND<200	1300	ND<500	ND<500	ND<500	ND<5000	NA
	4/27/2009	ND<200	ND<200	ND<200	ND<500	ND<1000	190 J	31 J	ND<500	830	ND<200	830	ND<500	ND<500	ND<500	ND<5000	NA
DUP	ND<200	ND<200	ND<200	ND<500	ND<1000	230	36 J	ND<500	1400	ND<200	1400	ND<500	ND<500	ND<500	ND<5000	NA	
W-17A	2/14/2008	ND<2.0	ND<2.0	0.92 J	ND<5.0	ND<10	ND<2.0	ND<2.0	0.70 J	ND<2.0	ND<2.0	ND<4.0	0.37 J	ND<5.0	ND<5.0	140	NA
	1/16/2009	ND<2.0	ND<2.0	0.33 J	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	54	NA
	4/22/2009	ND<2.0	ND<2.0	2.1	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	57	NA
W-17B	2/14/2008	ND<2.0	ND<2.0	0.74 J	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	30 J	NA
	1/16/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	18 J	NA
	4/22/2009	ND<2.0	ND<2.0	0.72 J	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	18 J	NA
W-17C	2/14/2008	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	25 J	NA
	1/16/2009	ND<2.0	ND<2.0	0.49 J	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	21 J	NA
	4/23/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	18 J	NA
Operational Area 4: West Tank Farm Area																	
MW-101	8/3/2006	34	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	11/9/2006	ND<2.0	ND<2.0	21	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	2/12/2007	ND<8.0	ND<8.0	ND<8.0	ND<20	ND<40	ND<8.0	ND<8.0	ND<20	ND<8.0	ND<8.0	ND<16	ND<20	ND<20	ND<20	72	2.2
	5/11/2007	0.47 J	ND<2.0	37	ND<5.0	ND<10	ND<2.0	ND<2.0	0.82 J	ND<2.0	ND<2.0	ND<4.0	0.30 J	ND<5.0	ND<5.0	ND<50	NA
	8/8/2007	0.49 J	ND<2.0	46	ND<5.0	ND<10	ND<2.0	ND<2.0	0.72 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	11/8/2007	0.90 J	ND<2.0	6.3	ND<5.0	ND<10	ND<2.0	ND<2.0	0.80 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	10/6/2005	ND<1.0	ND<1.0	41	ND<5.0	ND<10	ND<2.0	ND<2.0	1.4	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	2.1	25	NA
	DUP	ND<1.0	ND<1.0	34	ND<5.0	ND<10	ND<2.0	ND<2.0	1.4	ND<1.0	ND<1.0	ND<2.0	2.3	ND<2.0	ND<1.0	31	NA
	2/15/2006	ND<5.0	ND<5.0	36	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.1	ND<1.0	ND<1.0	27	NA
	DUP	ND<5.0	ND<5.0	34	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.2	ND<1.0	ND<1.0	27	NA
	8/1/2006	ND<2.0	ND<2.0	42	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	51	NA
	DUP	ND<2.0	ND<2.0	39	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	57	NA
	11/8/2006	ND<2.0	ND<2.0	62	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
DUP	ND<2.0	ND<2.0	59	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
2/7/2007	ND<2.0	ND<2.0	57	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	1.3	
DUP	ND<2.0	ND<2.0	47	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	1.5	
5/9/2007	ND<2.0	ND<2.0	36	ND<5.0	ND<10	ND<2.0	ND<2.0	0.59 J	ND<2.0	ND<2.0	ND<4.0	0.77 J	ND<5.0	ND<5.0	ND<50	NA	
DUP	ND<2.0	ND<2.0	36	ND<5.0	ND<10	ND<2.0	ND<2.0	0.57 J	ND<2.0	ND<2.0	ND<4.0	0.78 J	ND<5.0	ND<5.0	ND<50	NA	
8/7/2007	ND<2.0	ND<2.0	62	ND<5.0	ND<10	ND<2.0	ND<2.0	1.1 J	ND<2.0	ND<2.0	ND<4.0	0.98 J	ND<5.0	0.32 J	ND<50	NA	
DUP	ND<2.0	ND<2.0	60	ND<5.0	ND<10	ND<2.0	ND<2.0	1.4 J	ND<2.0	ND<2.0	ND<4.0	0.99 J	ND<5.0	ND<5.0	ND<50	NA	
11/5/2007	ND<2.0	ND<2.0	68	ND<5.0	ND<10	ND<2.0	ND<2.0	1.2 J	ND<2.0	ND<2.0	ND<4.0	1.0 J	ND<5.0	ND<5.0	ND<50	NA	
DUP	ND<2.0	ND<2.0	60	ND<5.0	ND<10	ND<2.0	ND<2.0	1.2 J	ND<2.0	ND<2.0	ND<4.0	0.95 J	ND<5.0	ND<5.0	ND<50	NA	
2/5/2008	ND<2.0	ND<2.0	74	ND<5.0	ND<10	ND<2.0	ND<2.0	2.3 J	ND<2.0	ND<2.0	ND<4.0	1.6 J	ND<5.0	ND<5.0	ND<50	NA	
DUP	ND<2.0	ND<2.0	72	ND<5.0	ND<10	ND<2.0	ND<2.0	2.3 J	ND<2.0	ND<2.0	ND<4.0	1.6 J	ND<5.0	ND<5.0	ND<50	NA	
1/15/2009	ND<2.0	ND<2.0	84	ND<5.0	ND<10	ND<2.0	ND<2.0	2.6 J	ND<2.0	ND<2.0	ND<4.0	0.86 J	ND<5.0	ND<5.0	ND<50	NA	
DUP	ND<2.0	ND<2.0	75	ND<5.0	ND<10	ND<2.0	ND<2.0	2.3 J	ND<2.0	ND<2.0	ND<4.0	0.72 J	ND<5.0	ND<5.0	ND<50	NA	
4/22/2009	ND<2.0	ND<2.0	44	ND<5.0	ND<10	ND<2.0	ND<2.0	1.3 J	ND<2.0	ND<2.0	ND<4.0	0.65 J	ND<5.0	ND<5.0	ND<50	NA	
DUP	ND<2.0	ND<2.0	62	ND<5.0	ND<10	ND<2.0	ND<2.0	1.9 J	ND<2.0	ND<2.0	ND<4.0	0.85 J	ND<5.0	ND<5.0	ND<50	NA	
MW-201	10/7/2005	37	ND<5.0	ND<5.0	ND<50	ND<25	33	16	ND<2.5	73	18	91	ND<10	ND<10	ND<10	130	NA
	2/15/2006	2.5 J	ND<5.0	1.6 J	ND<5.0	ND<5.0	1.2 J	ND<5.0	ND<5.0	6.3	ND<5.0	6.3	ND<1.0	ND<1.0	ND<1.0	20	NA
	8/2/2006	ND<2.0	ND<2.0	13	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	4.1	ND<2.0	4.4	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	11/9/2006	3.4	ND<2.0	30	ND<5.0	ND<10	4.8	ND<2.0	ND<5.0	11	2.9	13	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	2/7/2007	ND<2.0	ND<2.0	7.4	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	5.1	ND<2.0	5.4	ND<5.0	ND<5.0	ND<5.0	ND<50	1.1
	5/9/2007	ND<2.0	0.67 J	8.5	ND<5.0	ND<10	ND<2.0	ND<2.0	0.67 J	2.6	ND<2.0	2.8	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	8/8/2007	0.75 J	ND<2.0	22	ND<5.0	ND<10	ND<2.0	ND<2.0	0.90 J	3.3	ND<2.0	3.5 J	ND<5.0	ND<5.0	ND<5.0	ND<50	NA
	11/6/2007	3.9	ND<2.0	22	ND<5.0	ND<10	6.3	8.4	1.6 J	30	6.9	36	ND<5.0	ND<5.0	ND<5.0	92	NA
	2/7/2008	ND<2.0	ND<2.0	36	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0		

TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Toluene	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	p/m-Xylenes	o-Xylene	Total Xylenes	Diisopropyl Ether (DIPE)	Tert-Amyl Methyl Ether (TAME)	Methyl tert-Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)	1,4-Dioxane	
Operational Area 5: Lakeland Property																		
MW-501A	8/3/2006	32	ND<2.0	ND<2.0	ND<5.0	ND<10	6.2	25	ND<5.0	50	6.1	56	ND<5.0	ND<5.0	700	84	NA	
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	1100	ND<50	NA	
	2/12/2007	ND<40	ND<40	ND<40	ND<100	ND<200	ND<40	44	ND<100	ND<40	ND<40	ND<80	ND<100	ND<100	1100	ND<1000	13	
	5/11/2007	ND<100	ND<100	ND<100	ND<250	ND<500	ND<100	24 J	ND<250	ND<100	ND<100	ND<200	ND<250	ND<250	640	ND<2500	NA	
	8/10/2007	15 J	ND<20	ND<20	ND<50	ND<100	3.6 J	27	ND<50	28	3.1 J	31 J	ND<50	ND<50	630	54 J	NA	
	11/8/2007	11 J	ND<40	ND<40	ND<100	ND<200	17 J	ND<40	13 J	ND<100	13 J	ND<40	ND<80	ND<100	410	ND<1000	NA	
	10/5/2005	ND<100	ND<100	ND<100	ND<1000	ND<500	ND<100	110	ND<50	110	ND<100	110	ND<200	ND<200	15000	ND<1000	NA	
MW-502	2/14/2006	32 J	ND<50.0	ND<50.0	ND<50.0	ND<50.0	86	139	ND<50.0	182	ND<50.0	182	ND<10.0	ND<10.0	29300	ND<100.0	NA	
	8/4/2006	38	ND<2.0	ND<2.0	ND<5.0	ND<10	160	98	ND<5.0	730	ND<2.0	740	ND<5.0	6.9	29000	790	NA	
	11/10/2006	51	ND<2.0	ND<2.0	ND<5.0	ND<10	110	240	ND<2.0	250	ND<2.0	260	ND<5.0	ND<5.0	19000	ND<50	NA	
	2/9/2007	ND<400	ND<400	ND<400	ND<1000	ND<2000	ND<400	ND<400	ND<1000	560	ND<400	ND<800	ND<1000	ND<1000	23000	ND<10000	7.6	
	5/11/2007	59 J	ND<200	ND<200	ND<500	ND<1000	400	250	ND<500	720	ND<200	720	ND<500	ND<500	29000	ND<5000	NA	
	8/10/2007	50 J	ND<100	ND<100	ND<250	ND<500	200	200	ND<250	480	ND<100	490	ND<250	ND<250	34000	610 J	NA	
	11/8/2007	ND<400	ND<400	ND<400	ND<1000	ND<2000	50 J	100 J	ND<1000	140 J	ND<400	ND<800	ND<1000	ND<1000	16000	ND<10000	NA	
MW-503B	2/11/2008	52 J	ND<200	ND<200	ND<500	ND<1000	30 J	98 J	ND<500	120 J	ND<200	120 J	ND<500	ND<500	27000	ND<5000	NA	
	10/5/2005	ND<20	ND<20	ND<20	ND<200	ND<100	ND<20	ND<20	ND<10	38	ND<20	38	ND<40	ND<40	ND<20	ND<200	NA	
	2/14/2006	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<50.0	ND<250.0	ND<250.0	ND<50.0	ND<10.0	ND<10.0	ND<10.0	ND<100.0	NA	
	8/4/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	5.8	2.1	2.0	4.1	ND<5.0	ND<5.0	7.6	ND<50	NA	
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	2/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	5.4	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	7.6	
	5/11/2007	0.58 J	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	0.61 J	7.4	1 J	ND<2.0	1.3 J	ND<5.0	ND<5.0	1.3 J	ND<50	NA	
Operational Area 6: Former AST Area at Walker Property	8/10/2007	0.62 J	ND<2.0	ND<2.0	ND<5.0	ND<10	0.23 J	0.44 J	7.6	1.1	ND<2.0	1.3	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	11/8/2007	3.6 J	ND<8.0	ND<8.0	ND<20	ND<40	ND<8.0	ND<8.0	7.0 J	4.7 J	ND<8.0	4.7 J	ND<20	ND<20	2.8 J	ND<200	NA	
	2/11/2008	3.1 J	ND<8.0	ND<8.0	ND<20	ND<40	ND<8.0	ND<8.0	6.3 J	3.5 J	ND<8.0	3.5 J	ND<20	ND<20	3.4 J	ND<200	NA	
	1/21/2009	14	ND<10	ND<10	ND<25	ND<50	ND<10	4.2 J	25	28	3.0 J	32	ND<25	ND<25	ND<25	ND<250	NA	
	4/27/2009	11	ND<2.0	ND<2.0	ND<5.0	ND<10	0.53 J	2.9	25	18	2.9	21	ND<5.0	ND<5.0	2.2 J	ND<50	NA	
	W-3A	2/16/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	18	16	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	6.2	16	NA
		8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	9.0	ND<50	NA
11/9/2006		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	6.4	9.5	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	11	ND<50	NA	
2/8/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	3.9	6.1	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	8.4	ND<50	1.9	
5/10/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	2.3	3.6	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	7.8	23 J	NA	
8/9/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	2.0 J	2.3	ND<5.0	ND<2.0	0.34 J	ND<4.0	ND<5.0	ND<5.0	9.8	26 J	NA	
11/7/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	0.64 J	0.67 J	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	9.7	26 J	NA	
Off-Site Wells: Walker Property	2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	10	ND<50	NA	
	W-1	10/6/2005	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<5.0	ND<1.0	ND<1.0	7.1	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	25	34	NA
		2/15/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.3 J	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	22	37	NA
		8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	77	100	NA
		11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	65	78	NA
		2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	21	ND<50	0.95
		5/10/2007	0.57 J	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	1.8 J	ND<2.0	0.32 J	ND<4.0	ND<5.0	ND<5.0	28	43 J	NA
8/9/2007		0.84 J	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	1.9 J	ND<2.0	0.63 J	1.2 J	ND<4.0	ND<5.0	ND<5.0	64	84	NA	
W-4	11/7/2007	1.6 J	ND<2.0	ND<2.0	ND<5.0	ND<10	0.38 J	2.1	1.2 J	0.68 J	0.91 J	1.6 J	0.25 J	0.40 J	56	80	NA	
	2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	31	51	NA	
	1/20/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	2.8 J	ND<2.0	ND<2.0	ND<4.0	0.41 J	ND<5.0	3.1 J	23 J	NA	
	DUP	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	3.7 J	ND<2.0	ND<2.0	ND<4.0	0.49 J	ND<5.0	3.9 J	35 J	NA	
	4/24/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	9.5	ND<2.0	ND<2.0	ND<4.0	0.42 J	ND<5.0	ND<5.0	26 J	NA	
	10/6/2005	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<5.0	ND<1.0	ND<1.0	1.3	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	47	NA	
	2/15/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.4 J	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	38	NA		
EW-1	8/3/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	11/9/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	2/8/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<50	2.1	
	5/10/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	1.0 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	1.6 J	30 J	NA	
	8/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	0.59 J	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	2.0 J	18 J	NA	
	11/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	1.4 J	22 J	NA	
	2/7/2008	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	55	NA	
W-16A	DUP	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	50	NA	
	1/19/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	1.8 J	ND<2.0	ND<2.0	ND<4.0	0.41 J	ND<5.0	0.38 J	47 J	NA	
	4/27/2009	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	1.9 J	ND<2.0	ND<2.0	ND<4.0	0.32 J	ND<5.0	0.32 J	37 J	NA	
	11/10/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	6.9	ND<2.0	ND<5.0	16	ND<2.0	17	ND<5.0	ND<5.0	ND<5.0	ND<50	NA	
	2/9/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	5.1	2.3	ND<5.0	9.4	ND<2.0	10	ND<5.0					

TABLE D2-B  
HISTORICAL GROUNDWATER DATA  
TPHg, VOC, AND OXYGENATE RESULTS (ARCADIS)

FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Toluene	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	p/m-Xylenes	o-Xylene	Total Xylenes	Diisopropyl Ether (DIPE)	Tert-Amyl Methyl Ether (TAME)	Methyl tert-Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)	1,4-Dioxane	
Off-Site Wells: Metropolitan State Hospital																		
MW-603	10/6/2005	ND<1.0	ND<1.0	150	ND<10	ND<5.0	ND<1.0	ND<1.0	1.6	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<10	NA	
	2/14/2006	ND<5.0	ND<5.0	110	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	18	NA	
	8/1/2006	ND<2.0	ND<2.0	120	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	11/7/2006	ND<2.0	ND<2.0	120	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	2/6/2007	ND<2.0	ND<2.0	92	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.8	
	5/8/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/7/2007	ND<2.0	ND<2.0	110	1.6 J	ND<10	ND<2.0	ND<2.0	0.79 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	11/5/2007	ND<2.0	ND<2.0	110	1.9 J	ND<10	ND<2.0	ND<2.0	1.2 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	2/4/2008	ND<2.0	ND<2.0	110	1.4 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	1/13/2009	ND<2.0	ND<2.0	79	0.61 J	ND<10	ND<2.0	ND<2.0	1.2 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
4/21/2009	ND<2.0	ND<2.0	86 M2	0.53 J	ND<10	ND<2.0	ND<2.0	0.99 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
MW-604	11/7/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	15	65	
	2/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	20	60	
	5/8/2007	0.38 J	ND<2.0	ND<2.0	ND<5.0	ND<10	0.48 J	0.26 J	0.87 J	0.81 J	0.48 J	1.3 J	ND<5.0	ND<5.0	ND<5.0	18	57	
	8/7/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	0.23 J	ND<2.0	0.74 J	0.46 J	1.2 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	44 J	
	11/5/2007	0.36 J	ND<2.0	ND<2.0	ND<5.0	ND<10	0.41 J	ND<2.0	0.69 J	0.85 J	0.49 J	1.3 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	23	
MW-605	10/5/2005	ND<1.0	ND<1.0	20	ND<10	ND<5.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<10	NA	
	DUP	ND<1.0	ND<1.0	20	ND<10	ND<5.0	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<10	NA	
	2/14/2006	ND<5.0	ND<5.0	21	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<10	NA	
	DUP	ND<5.0	ND<5.0	17	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<10	NA	
	8/1/2006	ND<2.0	ND<2.0	26	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	DUP	ND<2.0	ND<2.0	26	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	11/7/2006	ND<2.0	ND<2.0	29	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	DUP	ND<2.0	ND<2.0	29	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	2/6/2007	ND<2.0	ND<2.0	35	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.5	
	DUP	ND<2.0	ND<2.0	34	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.6	
	5/8/2007	ND<2.0	ND<2.0	33	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	DUP	ND<2.0	ND<2.0	35	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	8/7/2007	ND<2.0	ND<2.0	33	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	DUP	ND<2.0	ND<2.0	32	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	11/5/2007	ND<2.0	ND<2.0	20	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	DUP	ND<2.0	ND<2.0	21	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	2/4/2008	ND<2.0	ND<2.0	21	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
DUP	ND<2.0	ND<2.0	21	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA		
MW-606	10/5/2005	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<5.0	ND<1.0	ND<1.0	3.2	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<10	NA	
	2/14/2006	ND<5.0	ND<5.0	ND<5.0	3.8 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<10	NA	
	8/1/2006	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	11/7/2006	6.7	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	2/6/2007	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<0.48	
	5/8/2007	ND<2.0	ND<2.0	ND<2.0	3.5 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	8/7/2007	ND<2.0	ND<2.0	ND<2.0	4.6 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	0.90 J	
	11/5/2007	ND<2.0	ND<2.0	ND<2.0	2.0 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	2/4/2008	ND<2.0	ND<2.0	ND<2.0	1.0 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	1/13/2009	ND<2.0	ND<2.0	ND<2.0	1.2 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	4/21/2009	ND<2.0	ND<2.0	ND<2.0	0.38 J	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	
	MW-607	10/5/2005	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<5.0	ND<1.0	ND<1.0	1.2	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<10	NA
		2/14/2006	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.0 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<10	NA
8/1/2006		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	120	
11/7/2006		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	77	
2/6/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	130	
5/8/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.3 J	
8/7/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	1.2 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.0 J	
11/5/2007		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	0.99 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.1 J	
2/4/2008		ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<10	0.45 J	ND<2.0	1.3 J	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.6	
1/13/2009		ND<2.0	ND<2.0	15	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
4/21/2009	ND<2.0	ND<2.0	2.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6.7 J		
W-14A	2/12/2008	ND<2.0	ND<2.0	2.2	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	0.47 J	
	4/21/2009	ND<2.0	ND<2.0	28	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	8.1 ID, J	
W-14B	1/13/2009	ND<2.0	ND<2.0	81	ND<5.0	ND<10	ND<2.0	ND<2.0	ND&lt									

**TABLE D3-A  
HISTORICAL GROUNDWATER DATA  
INTRINSIC BIOREMEDIATION PARAMETER RESULTS (PREVIOUS CONSULTANTS)**

**FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	Total Heterotrophic Bacteria (cfu/mL)	Pseudomonas Bacteria (MPN/100)	Methane (mg/L)	Ferrous Iron (mg/L)	Alkalinity (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-104A	7/22/1999	520	ND	NS	0.2	851	ND<0.050	45
	1/13/2000	ND	ND	0.322	0.88	849	ND<0.10	35
	8/3/2000	640	11	NS	0.93	798	ND<0.10	59
	2/7/2001	4400	ND<1	0.289	0.2	790	ND<0.10	98
	5/7/2002	NS	NS	0.257	3	720	ND<0.10	150
	9/24/2002	NS	NS	0.229	0.22	650	ND<0.10	250
MW-205	7/22/1999	100	ND	NS	0.5	648	ND<0.050	249
	1/11/2000	40	ND	2.24	0.95	771	ND<0.10	35
	8/3/2000	2200	36	NS	ND<0.10	794	ND<0.10	51
	2/7/2001	5600	ND<1	0.033	ND<0.10	740	ND<0.10	116
	5/8/2002	NS	NS	0.228	ND<0.10	610	ND<0.10	360
	9/23/2002	NS	NS	1.39	0.19	780	ND<0.10	64
MW-502	7/23/1999	28000	ND	NS	5.5	808	ND<0.050	ND<2
	1/13/2000	14000	ND	15.4	1.4	828	ND<0.10	4
	8/2/2000	10	ND<1	NS	0.85	834	ND<0.10	ND<2
	2/7/2001	24000	ND<1	0.984	0.7	840	ND<0.10	2
	5/9/2002	NS	NS	7.05	0.75	830	ND<0.10	ND<1.0
	9/23/2002	NS	NS	5.83	ND<0.10	850	ND<0.10	ND<1.0
MW-605	7/20/1999	40	ND	NS	ND<0.10	467	4.13	200
	1/11/2000	18	ND	NS	ND<0.10	486	5.2	181
	8/2/2000	ND<1	ND<1	NS	ND<0.10	530	5.8	203
	2/7/2001	1600	ND<1	NS	ND<0.10	510	7	164
	5/7/2002	NS	NS	ND<0.0010	ND<0.10	480	8.4	220
	9/24/2002	NS	NS	ND<0.0010	ND<0.10	490	8.3	220
MW-606	7/20/1999	72	ND	NS	ND<0.10	400	7.94	177
	1/11/2000	2.0	ND	NS	ND<0.10	390	8.6	236
	8/2/2000	ND<1	ND<1	NS	ND<0.10	406	8.8	260
	2/7/2001	3300	ND<1	ND<0.001	ND<0.10	390	9	261
	5/7/2002	NS	NS	ND<0.0010	ND<0.10	400	8.4	250
	9/24/2002	NS	NS	ND<0.0010	ND<0.10	390	8.6	280

**NOTES**

ND< = Not detected above the laboratory reporting limit shown

cfu/mL = colony forming units per milliliter

MPN/100 = most probable number of bacteria per 100 milliliters of sample

mg/L = milligram(s) per liter

NS = not sampled

ND = bacteria were not detected

Duplicate sample data are shown in parentheses

Data table created from the following reports: *Semi-Annual Groundwater Monitoring Report: February 2001 Monitoring Event*, by Versar, Inc., dated June 6, 2001, and *Semi-Annual Groundwater Monitoring Report: September 2002 Monitoring Event*, by TRC, dated December 9, 2002.

**TABLE D3-B  
HISTORICAL GROUNDWATER DATA  
INTRINSIC BIOREMEDIATION PARAMETER RESULTS (ARCADIS)**

**FORMER CENCO REFINERY  
SANTA FE SPRINGS, CALIFORNIA**

Well ID	Date	Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Alkalinity (mg/L)	Ferrous Iron (mg/L)
MW-104A	10/7/2005	0.0695	ND<0.10	89	570	ND<0.10
	2/15/2006	0.059	ND<0.44	56.3	803	ND<0.10
	8/1/2006	Well temporarily capped/covered below ground surface for temporary roadway. Well reconstructed in January 2007.				
	11/7/2006	Well temporarily capped/covered below ground surface for temporary roadway. Well reconstructed in January 2007.				
	2/7/2007	ND<0.050	1.2	57	500	ND<0.10
	5/8/2007	ND<0.050	ND<0.11	30	810	0.10
	8/8/2007	0.015	ND<0.11	72	820	0.20
	11/5/2007	0.018	ND<0.11	120	720	0.10
	2/4/2008	0.026	ND<0.22	160	750	ND<0.10
	1/16/2009	0.0015	0.42	150	630	0.10
4/22/2009	0.0099	ND<0.11	120	740	0.20	
MW-205	10/6/2005	3.330	ND<0.10	63	3600	0.44
	2/15/2006	1.036	ND<0.44	341	630	ND<0.10
	8/2/2006	8.1	ND<0.15	430	610	0.30
	11/8/2006	1.5	ND<0.11	470	530	0.60
	2/7/2007	0.22	ND<0.11	420	620	ND<0.1
	5/9/2007	0.25	ND<0.11	430	540	0.20
	8/8/2007	1.5	ND<0.11	410	580	2.0
	11/6/2007	1.0	ND<0.11	270	650	2.0
	2/5/2008	0.56	ND<0.11	200	730	0.1
	1/19/2009	0.085	ND<0.11	290	620	2.0
4/22/2009	0.34	ND<0.11	280	660	1.0	
MW-503B	10/5/2005	1.380	ND<0.10	24	730	ND<0.10
	2/14/2006	0.581	ND<0.44	36.5	713	ND<0.10
	8/4/2006	1.2	ND<0.15	58	700	0.20
	11/10/2006	1.7	ND<0.11	66	560	0.10
	2/9/2007	0.62	ND<0.11	150	680	ND<0.10
	5/11/2007	0.25	ND<0.11	170	660	0.20
	8/10/2007	0.85	ND<0.11	52	680	0.20
	11/8/2007	1.3	ND<0.11	36	790	0.50
	2/11/2008	1.2	ND<0.11	78	680	0.40
	1/21/2009	0.16	ND<0.11	4.4	700	1.0
4/27/2009	0.60	ND<0.11	7.4	780	1.0	
MW-605	10/5/2005	0.00125 (ND<0.00100)	8.3 (8.3)	180 (170)	500 (500)	ND<0.10 (ND<0.10)
	2/14/2006	ND<0.005 (ND<0.005)	38.2 (37.8)	182 (184)	450 (460)	ND<0.10 (ND<0.10)
	8/1/2006	ND<0.050 (ND<0.050)	8.6 (8.6)	230 (230)	460 (460)	ND<0.10 (ND<0.10)
	11/7/2006	ND<0.050 (ND<0.050)	7.2 (6.6)	200 (200)	460 (470)	ND<0.10 (ND<0.10)
	2/6/2007	ND<0.050 (ND<0.050)	6.5 (6.5)	210 (210)	470 (480)	ND<0.10 (ND<0.10)
	5/8/2007	ND<0.050 (ND<0.050)	5.5 (5.5)	220 (220)	430 (440)	ND<0.10 (ND<0.10)
	8/7/2007	ND<0.0010 (ND<0.0010)	6.6 (6.5)	190 (190)	420 (440)	ND<0.10 (ND<0.10)
	11/5/2007	0.0026 (ND<0.0010)	5.9 (6.0)	190 (190)	420 (420)	0.10 (0.10)
2/4/2008	ND<0.0010 (0.0013)	6.5 (6.7)	190 (210)	380 (430)	ND<0.10 (ND<0.10)	
MW-606	10/5/2005	0.178	3.0	170	540	ND<0.10
	2/14/2006	ND<0.005	34.0	334	400	ND<0.10
	8/1/2006	ND<0.050	7.8	340	370	ND<0.10
	11/7/2006	ND<0.050	7.9	280	400	ND<0.10
	2/6/2007	ND<0.050	9.3	300	370	ND<0.10
	5/8/2007	ND<0.050	8.1	260	360	ND<0.10
	8/7/2007	0.0024	6.6	240	400	ND<0.10
	11/5/2007	0.00056 J	2.1	170	380	ND<0.10
	2/4/2008	ND<0.0010	0.7	160	370	ND<0.10
	1/13/2009	ND<0.0010	2.9	210	380	ND<0.10
4/21/2009	0.00060 J	0.49	150	430	ND<0.10	

**NOTES**

ND< = Not detected above the laboratory reporting limit shown  
mg/L = milligram(s) per liter  
NS = not sampled  
J = estimated concentration below reporting limit  
Duplicate sample data are shown in parentheses